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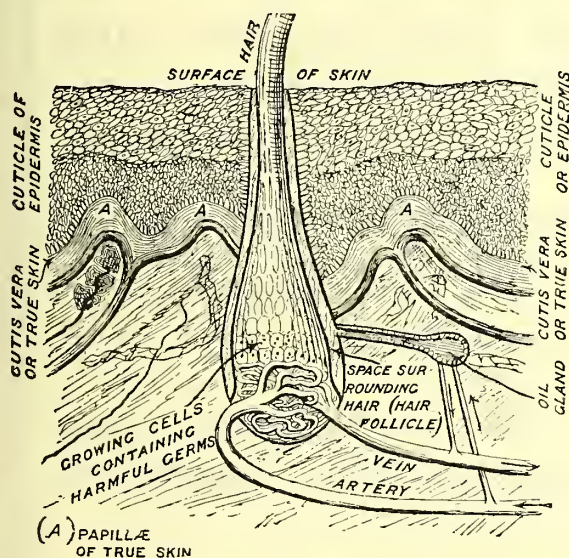
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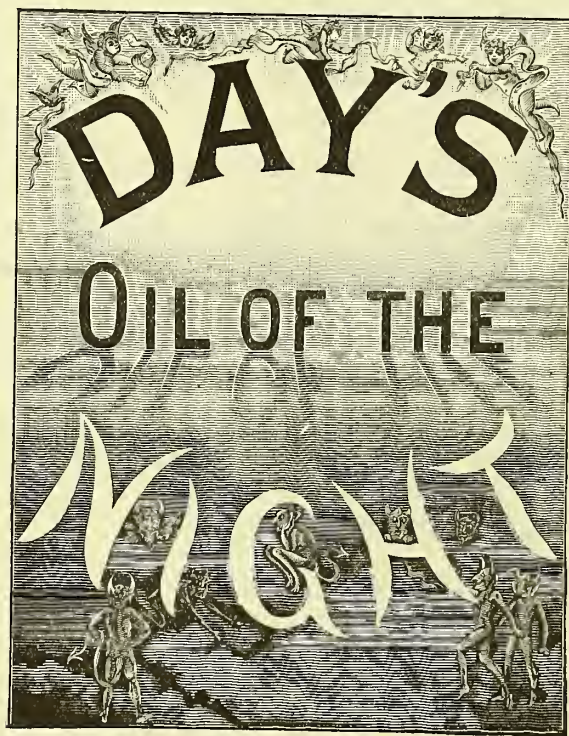
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ASKED FOR

DAY'S OIL OF THE NIGHT

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Johnsen & Jorgensen, Ltd.
Lennon, Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Murdoch, John, & Co.
Newbery, F., & Sons, Ltd.
Pothe, H., & Co.
Quelch, H. C., & Co.
Reuter, R. J.
Sangers'
Schutze, F., & Co.
Solport Bros.
Southall Bros. & Barclay, Ltd.
Tidman & Son, Ltd.
Toogood, W., Ltd.
Viscose Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co.
EAU DE COLOGNE
Farina, J. M.
Farina, J. M. (No. 4)
McCracken, J. & R.
Reuter, R. J.
Schutze, F., & Co.
Van Oppen, Ross & Co.**EDUCATIONAL INSTITUTIONS**Bath and West of England College of Pharmacy
Birmingham and Midland College of Pharmacy
City of London College
Edinburgh Central School of Pharmacy
Glasgow School of Pharmacy
Highbury New Park College
Leeds College of Pharmacy
Liverpool School of Pharmacy
London College of Pharmacy
Manchester College of Pharmacy
Muter's (So. Lond.) School of Pharmacy
North of England School of Pharmacy
Northern College of Pharmacy
Pelman School of Memory
School of Pharmacy
South of England College of Pharmacy
Westminster College of Pharmacy**EMERY AND CLOTH**

Oakley, J., & Sons, Ltd.

EMULSIONS, COD-LIVER OIL, ETC.Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Barron, Harveys & Co.
Blackie, R.
Boulton, J., & Co.
Burgoyne, Burbidges & Co.
Davy Hill & Hodgkinsons
Evans Sons Lescher & Webb, Ltd.
Faulding, F. H., & Co.
Harker, Stagg & Morgan, Ltd.
Hearon, Squire & Francis, Ltd.
Lorimer & Co., Ltd.
Oldfield, Pattinson & Co.
Parke, Davis & Co.
Woolleys, Ltd.

EFFERVESCENT PREPS

Allen & Hanburys, Ltd.
Bishop, Alfred, Ltd.
Blackie, R.
Bristol-Myers Co.
Cox, A. H., & Co., Ltd.
Davy Hill & Hodgkinsons
Evans Sons Lescher & Webb
Goodall, Backhouse & Co.
Kutnow, S., & Co., Ltd.
Lloyd, T. Howard, & Co.
Lorimer & Co., Ltd.
Martindale, W.
Newball & Mason
Parke, Davis & Co.
Potter & Clarke
Shirley Bros.
Standard Tablet & Pill Co.
Sturge, John & E.
Tidman & Son, Ltd.
Tyrer, T., & Co., Ltd.
Wand Mfg. Co.
Wright, Layman & Umney.

ELASTIC HOSIERY

Ayrton, Sanders & Co., Ltd.
Berliner, Arthur
Haywood, J. H.
Jackson, Röhrs, & Co.
Maw, S., Son & Sons
Wood, Vincent.

ENEMAS

Bailev, W. H., & Son
Baird Bros.
Burge, Warren & Ridgley
Daval Rubber Co.
Ingram, J. G., & Son
Maw, S., Son & Sons
Toogood, W., Ltd.
Warne, W., & Co., Ltd.

EPSOM SALTS

Howards & Sons, Ltd.

ESSENCES, CONCRETE

Lantier Fils
Murray, O., & Co., Ltd.
Roure-Bertrand fils

ESSENCES, SOL. AND FRUIT

Alliance Drug & Chem. Co.
Baiss Bros. & Stevenson, Ltd.
Barnett & Foster
Bush, W. J., & Co., Ltd.
Cresp-Martineng
Evans Sons Lescher & Webb
Hay, Wm., Ltd.
London Essence Co.
Lorimer & Co., Ltd.
Newball & Mason
Roure-Bertrand fils
Spencer, J., Son & Co.
Stevenson & Howell, Ltd.
Whittaker, A.

ETHERS

Baiss Bros. & Stevenson, Ltd.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Morson, T., & Son
Smith, B. A., & Co.
Tyrer, T., & Co., Ltd.
White, A., & Sons

ETHYL CHLORIDE

Duncan, Flockhart & Co.

EUCALYPTUS OIL

Alliance Drug & Chem. Co.
Baiss Bros. & Stevenson, Ltd.

EXTRACT OF HERBS

Newball & Mason
Potter & Clarke

EXTRACTS (MEDICINAL)

Allen, Stafford, & Sons, Ltd.
Chemists' Co-operative Wholesale
Hewlett, C. J., & Son
Pharmaceutische Handelsv.
Ransom, W., & Son
(See also WHOLESALE DRUGGISTS)

FEEDING BOTTLES

Brethit, E., & Co., Ltd.
Fecher, M. J.
Hovenden, R., & Sons, Ltd.
Kilner Bros., Ltd.
Maw, S., Son & Sons
Reuter, R. J.
Sangers

FILLING MACHINES

Roberts' Pat. Fill. Machine Co.

FILTERS (WATER)

Berkefeld Filter Co., Ltd.

FLY CATCHERS

Smith, J. H., & Co.

FORMALDEHYDE

Andesol Works
Burt, Boulton & Haywood

FULLER'S EARTH

Mumford, G. S., & Sons

FUMIGATORS

Sanitas Co., Ltd.

FOODS, INFANTS'

Allen & Hanburys, Ltd.
Benger's Food, Ltd.
Davy Hill & Hodgkinsons
Frame Food Co., Ltd.
Lofthouse & Saltmer
Natural Food Co., Ltd.
Willows, Francis B. & T.

FOODS, SPECIAL

Allen & Hanburys, Ltd.
Ayrton, Saunders & Co., Ltd.
Benger's Food, Ltd.
Brand & Co., Ltd.
Callard & Co.
Fairchild Bros. & Foster
Frame Food Co., Ltd.
International Plasmon, Ltd.
Lemco, Ltd.
Menley & James, Ltd.
Sanatogen Co.
Wander, A.

GELATIN AND GLUE

Boehm, F., Ltd.

GLAUBER'S SALT

Bramwell, E., & Son
Howards & Sons, Ltd.
Nichols Chemical Co., Ltd.

GLYCERIN

Alliance Drug & Chem. Co.
Boehm, F., Ltd.
Price's Patent Candle Co.

GOLD PAINT

Judson, D., & Son

GRINDERS

Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis B. & T.

GUMS

Fink, F., & Co.

HAIR PREPARATIONS

Capsuloid Co., Ltd.
Daisy, Ltd.
Edwards "Harlene" Co.
Harker, Stag & Morgan
J. S. W. Preparations, Ltd.
"Nyto"

Robare's Aureoline
Rowland, A., & Sons

Woolleys, Ltd.

HAT CLEANERS

Christy, T., & Co.

HAT DYES

Whittaker & Co.

HERBS

Potter & Clarke
United Drug Co.

HOMOEOPATHIC MEDICINES

Ashton & Parsons, Ltd.
Epps, J., & Co., Ltd.
Keene & Ashwell, Ltd.
Leath & Ross
HOT-WATER BOTTLES
Berliner, Arthur
Burge, Warren & Ridgley
Dunlop Rubber Co., Ltd.
Fulham Pottery & Cheavin
Filter Co., Ltd.
Maw, S., Son & Sons
Southall Bros. & Barclay
Wood, Vincent

HOTELS

Esmond Hotel
Kingsley Hotel
Thackeray Hotel

HYDROGEN PEROXIDE

May & Baker, Ltd.

Sanitas Co., Ltd.

Tyrer, T., & Co., Ltd.

HYPOPHOSPHITES

May & Baker, Ltd.

Merck, E.

Tyrer, T., & Co., Ltd.

INHALERS

Christy, T., & Co.

Fecher, M. J.

Sanitas Co., Ltd.

INK

Bewley & Draper, Ltd.

Hickisson, A. B.

INSECT POWDER

Boehm, F., Ltd.
Shirley Bros., Ltd.
Smith, B. A., & Co.
INSECTICIDES
Corry & Co., Ltd.
Francis, Son & Naylor
Smith, B. A., & Co.
Tomlinson & Hayward, Ltd.
Woolleys, Ltd.

IODINE AND IODIDES

Atkinson, G., & Co.
Howards & Sons, Ltd.
Merck, E.
Morson, T., & Son
Whiffen, Thos.
Wink, J. A., & Co.

ITROSYL

Fletcher, Fletcher & Co.

JARS AND POTS

Brethit, E., & Co., Ltd.
Cook, A., & Co.
Johnsen & Jorgensen, Ltd.
Kilner Bros., Ltd.
Maw, S., Son & Sons
Pothe, H., & Co.
Reuter, R. J.
Stipendium Stopper Co.
Toogood, W., Ltd.

LACTOBACIL. EDUCTS

Wilcox, Jozeau & Co.

LANOLINE

Burroughs Wellcome & Co.
Christy, T., & Co.
Sangers

LANTERNS

Butcher, W., & Sons

LARD

Chemists' Co-operative Wholesale
Ewen, J., & Sons

LEATHERS

Solport Bros.

LIME JUICE AND CORDIAL

Evans Sons Lescher & Webb
Goodall, Backhouse & Co.
Idris & Co., Ltd.

LINSEED, CRUSHED, ETC.

Allen, Stafford, & Sons
Alliance Drug & Chem. Co.
Mumford, G. S., & Sons

LIQUORICE JUICE

Alliance Drug & Chem. Co.
Barron, Harveys & Co.
Boehm, F., Ltd.

Burgoyne, Burbidges & Co.

Hearon, Squire & Francis

Jackson, E. E.

Mumford, G. S., & Sons

LIQUORS, CONC., ETC.

Allen, Stafford, & Sons, Ltd.
Fletcher, Fletcher & Co.
Hewlett, C. J., & Son

Robinson, B., & Co.

LITHIA SALTS

Davy Hill & Hodgkinsons
May & Baker, Ltd.
Merck, E.

LOOFAMS

Cresswell Bros. & Schmitz

LOZENGES

Allen & Hanburys, Ltd.
Cox, A. H., & Co., Ltd.
Denoual, J., & Co.
Guest, T., & Co.
Jackson, E. E.
Potter & Clarke
Raimes & Co.
Shirley Bros., Ltd.
Warrick Bros.

MACHINERY, PHARMACAL

Allen & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd.
Brown & Son
Fecher, M. J.
Gardner, Wm., & Sons, Ltd.
"Hercules" Meat Juice Press
Pindar, J. W., & Co.
Roberts' Patent Filling Machine
Co.

Smith, B. A., & Co.

Stokes, F. J., Machine Co.

Thompson & Capper (Stokes)

Wilkinson, S. W., & Co.

MAGNESIA AND ITS SALTS

Henry, T. & W.
Howards & Sons, Ltd.

May & Baker, Ltd.

Washington Chemical Co.

MALT EXTRACT AND PREPS

Allen & Hanburys, Ltd.
Blackie, R.
Burroughs Wellcome & Co.
Davy Hill & Hodgkinsons
Evans Sons Lescher & Webb
Hearon, Squire & Francis
Hewlett, C. J., & Son
Lorimer & Co., Ltd.
Oppenheimer, Son & Co., Ltd.
Paine & Co., Ltd.
Raimes, Clark & Co., Ltd.
Southall Bros. & Barclay, Ltd.
Squire & Sons
Wright, Layman & Umney

MARKING INK

Hickisson, A. (Bond's)

MEASURES

Taylor, F. H., & Sons

MEAT EXTRACT

Armour & Co., Ltd.

Brand & Co., Ltd.

MENTHOL CONES

Maw, S., Son & Sons
Shirley Bros., Ltd.

MEDICINE CHESTS

Burroughs Wellcome & Co.
Keene & Ashwell, Ltd.
Leath & Ross
Lloyd, T. Howard, & Co.
Parke, Davis & Co.

MERCURIALS

Atkinson, G., & Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Merck, E.
Tyrer, T., & Co., Ltd.
Whiffen, Thos.
Wink, J. A., & Co.

METHYLATED SPIRITS

Burrough, J., Ltd.
Preston's Liverpool Distillery
Randall & Son, Ltd.

MILK APPARATUS

Hawksley, T.
Zimmermann, C., & Co.

MILK SUGAR

Hollandsche M. S. Fabriek
Zimmermann, C., & Co.

MINERAL WATERS & SALTS

Apollinaris Co., Ltd.
Burrow, W. & J. (Malvern)
Davy Hill & Hodgkinsons, Ltd.
Findlater & Co.
Hughes, E. Griffiths
Ingram & Royle, Ltd.
Parke, Davis & Co.
Vitaregis Hygienic Co.

NAPHTHAS

Burt, Boulton & Haywood

NEBULIZERS

(See SPRAYS)

OILS, ESSENTIAL

Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chem. Co.
Atkinson, G., & Co.
Baiss Bros. & Stevenson
Bush, W. J., & Co., Ltd.
Chris, Antoine
Cresp-Martineng
Evans Sons Lescher & Webb
Goodall, Backhouse & Co.
Jakson, J., & Co.
Lautier Fils
Lescol Perfumery Co.
London Essence Co.
Ransom, W., & Son
Roure-Bertrand fils
Seymour, Joseph
Spencer, J., Son & Co.
Spurway et Cie.
Stevenson & Howell, Ltd.
Todd, A. M., Co.
Whiffen, Thos.
Whittaker, A.
Wink, J. A., & Co.
Wright, Layman & Umney

OILS, FATTY, ETC.

Allen, Stafford & Sons, Ltd.
Atkinson, G., & Co.
Cresp-Martineng
Lautier Fils
Price's Patent Candle Co.
Smith, B. A., & Co.

OILS, MINERAL

Price's Patent Candle Co.
Wright, Layman & Umney

OINTMENTS

Blackie, R.
Chemists' Co-operative Wholesale
Curling, G. Wyman, & Co.
Duncan, Flockhart & Co.
Kno-ska Co.
Oldfield, Pattinson & Co.
Sangers

OPTICAL GOODS

Botwright & Grey
Darton, F., & Co.
Druiff, S.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Raphael's, Ltd.

OPTICAL INSTRUCTION

British Optical Institute
Highbury New Park College
Lionel Lannance

PASTILLES

Allen & Hanburys, Ltd.
Asche, C. F., & Co.
Baiss Bros. & Stevenson
Burroughs Wellcome & Co.
Denoual, J., & Co.
Epps, J., & Co., Ltd.
Evans Sons Lescher & Webb
Guest, T., & Co.
Wander, A.
Warrick Bros.

PACKED GOODS

(See WHOLESALERS)

PALATINOLIDS

Oppenheimer, Sons & Co.

PATENT AGENT

Barker, R. W.

PERFUME MATERIALS

Bell, John, & Co.
Buisson Frères, *see* Bush
Bush, W. J., & Co., Ltd.
Chiris, Antoine
Compagnie Morana
Cresp-Martineng
Haliflor Co.
Hall, B. P., & Co.
Lautier Fils
Murray, O., & Co., Ltd.
Potter & Moore, *see* Bush
Shipkoff & Co.
Spencer, J., Son & Co.
Spurway et Cie.
Treatt, R. C., & Co.
Zimmermann, C., & Co.

PERFUMES

Allen & Hanburys, Ltd.
Barolay & Sons, Ltd.
Barron, Harveys & Co.
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Charles, W. F.
Christy, T., & Co.
Chuit, Naef & Co.
Cresp-Martineng
Erasme Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Haliflor Co.
Hall, B. P., & Co.
Hearon, Squire & Francis
Hertz & Co.
Hewlett, C. J., & Son
Hovenden, R., & Sons, Ltd.
Lescot Perfumery Co.
London Essence Co.
McCracken, J. & R.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Quelch, H. C., & Co.
Reuter, R. J.
Shirley Bros.
Southall Bros. & Barclay
Spencer, J., Son & Co.
Spurway et Cie.
To-Kalon Mfg. Co.
Warrick Bros.
West, T.

PESSARIES

Burge, Warren & Ridgley
Rendell, W. J. (Quin.)

PETROLEUM JELLY

Chesebrough Mfg. Co.

PHOTO. CHEMICALS

Boehringer, C. F., & Soehne
Burroughs Wellcome & Co.
Lockyer, J. E.
Merok, E.
Tyrer, T., & Co., Ltd.

PHOTO. GOODS

Barclay & Sons, Ltd.
Butcher, W., & Son, Ltd.
Darton, F., & Co.
Evans Sons Lescher & Webb
Iford, Ltd.
Lennon, Ltd.
May, Roberts & Co.
Murdoch, John, & Co.
Newbery, F., & Sons, Ltd.

PHOTO. WORK

Express Developing Co.

PILL MAKERS

Allen & Hanburys, Ltd.
Asche, C. F., & Co.
Barron, Harveys & Co.
Bishop, Alfred, Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Davy Hill & Hodgkinsons
Evans Sons Lescher & Webb, Ltd.
Hearon, Squire & Francis
Hewlett, C. J., & Son
Lloyd, T. Howard, & Co.
McKesson & Robbins
Newbery, F., & Sons
Parke, Davis & Co.
Pill, Tablet, & Capsule Alliance
Southall Bros. & Barclay
Standard Tablet & Pill Co.
Wand Mfg. Co.
Warner, W. R., & Co.
Woodley, J., Sons & Co., Ltd.
Wright, Layman & Umney

PLASTERS

Alcock Mfg. Co.
Berliner, Arthur
Beiersdorf, P., & Co.
Dalmás, A. de St., & Co.
Leslies, Ltd.
Maw, S., Son & Sons
Solport Bros.

POLISHES (VARIOUS)

Bradley & Bourdas
Kay Bros., Ltd.
Oakley, J., & Son, Ltd.

PRINTERS

Ford, Shapland & Co.
Harrison & Waide
Smith, W. H., & Son
Townsend, J., & Sons

PROPRIETARY ARTICLES

Anglo-American Drug Co.
Anglo-American Pharmaceutical Co., Ltd.

Arbe, Ltd.

Ashton & Parsons, Ltd.

Beecham, T.

Beiersdorf, P., & Co.

Bile Bean Mfg. Co.

Bow's, Dr., Liniment

Box, W. H.

Capsuloid Co., Ltd.

Chameleon Oil Co.

Chesebrough Mfg. Co.

Christy, T., & Co.

Coleman & Co., Ltd.

Congreve, G. T.

Cox, A. H., & Co., Ltd.

D.D.D. Company

Daggett & Ramsdell

Daisy, Ltd.

Davenport, J. T., Ltd.

Davidson & Co.

Day & Sons (Grew), Ltd.

Day, Son & Hewitt

Denoual, J., & Co.

Elliman, Sons & Co.

Fassett & Johnson

Faulding, F. H., & Co.

Fellows' Syrup

Fennings, Alfred

Ferris & Co.

Fulford, C. E., Ltd.

Genin, L., & Co.

Goodall, Backhouse & Co.

Grapelax, Ltd.

Greiff, R. W., & Co.

Guy's Tonic Co.

Henry, T. & W.

Hughes, E. Griffiths

Ichthyol Co.

Iron-Ox Rem. Co., Ltd.

Kaufmann, Dr.

Kay Bros., Ltd.

Kilmer & Co.

Knoll & Co.

Kutnow, S., & Co., Ltd.

Lalor's, Dr., Phosphodyne

Lambert Pbarmcal Co.

Lincoln & Mid. Co. Drug Co.

Lothouse & Saltmer

Lorimer & Co., Ltd.

Mandall & Co., Ltd.

Marmola Co.

Menley & James, Ltd.

Newbery, F., & Sons, Ltd.

Odol Chemical Works

Oudem Corn Remedy Co.

Owbridge, W. T., Ltd.

Patey, W., & Co.

Phillips, Chas. H., Chemical Co.

Pollantin (Schimmel & Co.)

Resinol Chemical Co.

Richards, J. M., & Sons

Rubwel Co.

Sanatogen Co.

Sangers'

Savaresse's Capsules (Evans)

Sekuritas

Squire & Sons

Standard Tablet & Pill Co.

Stedman's Teething Powders

Thermogene Co.

To-Kalon Mfg. Co.

Tunbridge & Wright

Wilcox, Jozeau & Co.

Wood's Peppermint Cure

Zotos, Ltd.

(See also DENTIFRICES and TOILET ARTICLES)

PROP. ARTS., DEALERS IN

Barclay & Sons, Ltd.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd.
Hovenden, R., & Sons, Ltd.
May, Roberts & Co.
Newbery, F., & Sons, Ltd.
Sangers'

PRESERVATIVES

(See DAIRY ADJUNCTS)

PULVELLÉ

Warrick Bros.

PULVERETTES

Oppenheimer, Son & Co., Ltd.

PUMPS

Berkefeld Filter Co., Ltd.

QUININE MANUFACTURERS

Boehringer, C. F., & Soehne
Howards & Sons, Ltd.
Whiffen, Thos.

RAZORS

Auto-Strip Safety Razor Co.

RENNET

Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

RESINS AND RESINOIDS

Allen, S., & Sons, Ltd.
Allen & Hanburys, Ltd.
Morson, T., & Son
Ransom, W., & Son
Smith, T. & H., Ltd.

RESPIRATORS

Zimmer & Co.

RUBBER GOODS

Baird Bros.
Burge, Warren & Ridgley, Ltd.
David Rubber Co.
Evans Sons Lescher & Webb, Ltd.
Fecher, M. J.
Galen Mfg. Co.
Haywood, J. H.
Hovenden, R., & Sons, Ltd.
Ingram, J. G., & Son
Markt & Co. (London), Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Schutze, F., & Co.
Warne, W., & Co., Ltd.

SACCHARIN

Saccharin Corporation, Ltd.

SALICIN

Maefarlan, J. F., & Co.
Smith, T. & H., Ltd.

SAMPLE CASES

Improved Mailing-case Co.
Keane, Thomas

SANTONIN

Smith, B. A., & Co.

SAPONIN

Field, C. W.
Hoffman-La Roche, F., & Co.
Stahmer, Dr. R.

SAUCES

Goodall, Backhouse & Co.

SCALE PREPARATIONS

Morson, T., & Son

SEA SALT

Tidman & Son, Ltd.

SELTZOGENES

Aerators, Ltd.

SERUMS AND ANTITOXINS

Allen & Hanburys, Ltd.
Evans Sons Lescher & Webb
Parke, Davis & Co.
Wilcox, Jozeau & Co.

SHEEP DIPS

Burt, Boulton & Haywood
Sanitas Co., Ltd.
Tomlinson & Hayward, Ltd.

SHOP-FITTING

Ayrton-Graham, Ltd.
Bowling & Son
Cleworth, J.
Evans Sons Lescher & Webb, Ltd.
Josephs, P., & Son
Maw, S., Son & Sons
Mills, H.
Rudduck & Co.
Sangers'
Southall Bros. & Barclay, Ltd.

SOAPS

Allen & Hanburys, Ltd.
Armour & Co., Ltd.
Bronnley, H., & Co., Ltd.
Chesebrough Mfg. Co.
Cook, E., & Co., Ltd.
Erasme Co., Ltd.
Gibbs, D. & W., Ltd.
Hull Oil Mfg. Co., Ltd.
J. S. W. Preparations, Ltd.
Lescot Perfumery Co.
Oakley, J., & Son, Ltd.
Pears, A. & F., Ltd.
Price's Patent Candle Co.
Richards, J. M., & Sons
Tidman & Son, Ltd.
Wright, Layman & Umney

SOCKS

Davis, J. M., & Sons
Solport Bros.

SOAP MATERIALS

Chiris, Antoine

SOAPS, MEDICATED

Armour & Co., Ltd.
Bronnley, H., & Co., Ltd.
Calvert, F. C., & Co.
Capsuloid Co.
Duncan, Flookhart & Co.
Faulding, F. H., & Co.
Hearon, Squire & Francis, Ltd.
Lambert Pharm. Co.
Sanitas Co., Ltd.
Wright, Layman & Umney

SODA FOUNTAINS

British Automatic Aerators, Ltd.
Jackson, J. P., & Co., Ltd.

SODIUM BICARBONATE

Brunner, Mond & Co., Ltd.
Howards & Sons, Ltd.
Mumford, G. S.

SOOTHERS

Armstrong, M. D.

Cartwright, A. S., Ltd.

SOUTH AFRICAN AGENTS

Lennon, Ltd.

Murdoch, John & Co.

SPARKLETS

Aerators, Ltd.

SPECTACLES

Anglo-American Optical Co.
Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Raphael's, Ltd.

SPIRIT OF WINE

Burrough, J., Ltd.
Preston's Liverpool Distillery

SPITTING-FLASKS

Maw, S., Son & Sons

SPONGE BAGS

Maw, S., Son & Sons

Toogood, W., Ltd.

SPONGES

Cresswell Bros. & Schmits
Internatl. Sponge Importers
Kent, G. B., & Sons, Ltd.
Markt & Co. (London), Ltd.
Maw, S., Son & Sons
Sangers'

SPONGIO-PILINE

Whitehead, R. R., & Bros.

SPRAYS

Burge, Warren & Ridgley, Ltd.
Cook, Alfred, & Co.
David Rubber Co.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Newbery, F., & Sons, Ltd.
Parke, Davis & Co.
Wetmore, S. H., Co.

STARCH

Mumford, G. S., & Sons

STOPPERS

Fletcher, Fletcher & Co.

Stipendium Stopper Co.

STOVES (HEATING)

Clark, S., & Co.

SURGICAL APPLIANCES

Allen & Hanburys, Ltd.
Bailey, W. H., & Son
Burroughs Wellcome & Co.
Curling, G. Wyman, & Co.
Ingram, J. G., & Son
Mason Bros. & Chapman
Maw, S., Son & Sons
Offord Hygienic Truss Co.
Schutze, F., & Co.
Wood Vincent

SURGICAL DRESSINGS

Baird Bros.
Beiersdorf, P., & Co.
Berliner, Arthur
Burroughs Wellcome & Co.
Curling, G. Wyman, & Co.
Dalmás, A. de St., & Co.
Galen Mfg. Co., Ltd.
Gimber, W.
Haynes, G., & Co.
Jackson, Röhrs, & Co.
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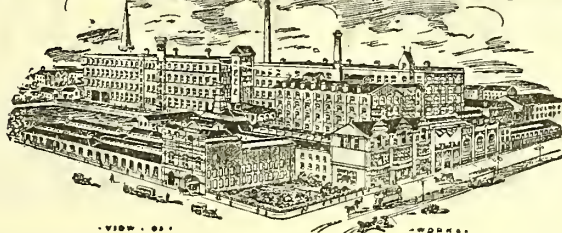
will be executed without delay. We thank all those who have written to us offering help and sympathy.

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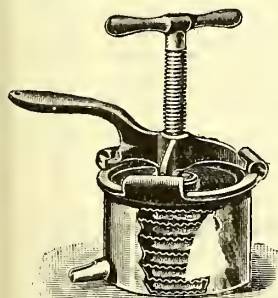
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The "Hercules" Patent Meat Juice Press

More economical and hygienic than others. Nearly the whole of the juice in raw meat—about 50%—can be obtained cold, i.e., about double the quantity obtainable by any other press. Only half the quantity of meat, therefore, being necessary, the saving is very considerable. No pressing cloth being used and all parts in contact with the meat being of pure tin or nickel-plated, these presses are unsurpassed from a hygienic point of view. To be obtained from all Chemists. (Wholesale: S. Maw, Son & Sons, Aldersgate St.; Allen & Hanburys, Ltd., 48 Wigmore St., W.; R. J. Reuter, 5-7 Denman St., London, W.; and Barclay & Sons, Ltd., 95 Farringdon St., London, E.C.) Also from Messrs. J. Barker & Co., Ltd., Kensington; Benetink & Co., Ltd., Chapside; Farrow & Jackson, 8 Haymarket; Harrod's, Ltd., Brompton; C. Kent, 199-201, High Holborn; J. Shoolbrod & Co. Tottenham Court Road; Wm Whiteley, Ltd. Westbourne Grove; Army & Navy, and Civil Service Stores; Spier & Pond, &c.



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The quality of Flavoured Sanatogen is the same as the original unflavoured, and both will be supplied in 4 sizes,
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SANATOGEN is now supplied
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1 doz. Free	...													
Cases 6d.	...				0	0	6							
Carriage forward					2	14	8					4	4	0
				B.										
3 doz. @ 9/6	...			1	8	6	3½ doz. @ 1/- each	2	2	0	
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Carriage forward					1	8	6					2	2	0

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An extra 5% Bonus

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**LARGER PROFITS TO THE RETAILER
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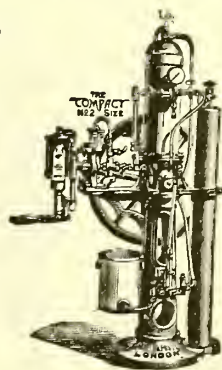
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ARE READY FOR USE IMMEDIATELY!
REQUIRE NO FIXING!**

Produce Soda Water, Lemonade, &c., of the
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Write for Catalogue.

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**A COMPLETE APPARATUS—
CAPABLE OF PRODUCING OVER
300 DOZEN LARGE BOTTLES
OF AERATED WATER PER DAY
—from £20.**

Bottles, Boxes, Essences, and all
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CONCENTRATED WATERS.

STANDARDISED TO B.P. 1898.

When diluted in the proportion of one part to forty parts of water at 60° temperature, they faithfully represent the Medicated Waters of the British Pharmacopœia. They are always of uniform strength, and will keep good any length of time in any climate.

Aqua Amygd. Amar. Conc. (U.S.)	4/- per lb.	Aqua Cassia Conc. ...	4/- pe. .b.	Aqua Menth. Virid. Conc. ...	4/- per lb.
" Anethi, Concent. ...	4/- "	" Flor Aurant. ...	8/6 "	" Pimentæ " ...	4/- "
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The above may be had in ½-lb., ¼-lb., or 1-lb. Bottles and upwards, through most of the Wholesale Drug Houses.

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Is the "Consol."

A purely business machine. No labour, no power, automatic. Best aeration. Four syphons filled for a penny.

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Great advance on existing
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reduced one half.Vastly improved quality.
No waste in filling.
Every Bottle or Syphon Uniform.
No skill required.**J.P. JACKSON & CO.**

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Tell your Customers they avoid all risks of Dysentery, Typhoid, and other Water-borne Diseases, if they always drink the “Camwal” Table Waters.

You can make a strong point of the fact that whereas most people are vastly particular about the brand of Whisky or Brandy they drink, the most inferior of which could hardly communicate diphtheria, dysentery or typhoid, they are usually absolutely indifferent about the source and quality of the fluid they imbibe in the shape of plain or aerated waters. Yet, from the health point, the latter is far the more important consideration!

It is a well-known fact that several of the sources from which the London water supplies are drawn contain sewage effluent.

The “Camwal” Table Waters are manufactured in London from Artesian Well Water of such remarkable purity that Dr. Thresh, the great authority on water, says: “A purer water it would be impossible to obtain.”

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IODOGLIDINE (An organic Compound of Iodine with pure Vegetable Protein.) Retailing at **4/-** per phial of 20 tablets.

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Invite the Trade to apply for the Agency for the following valuable P.A.T.A. Protected lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

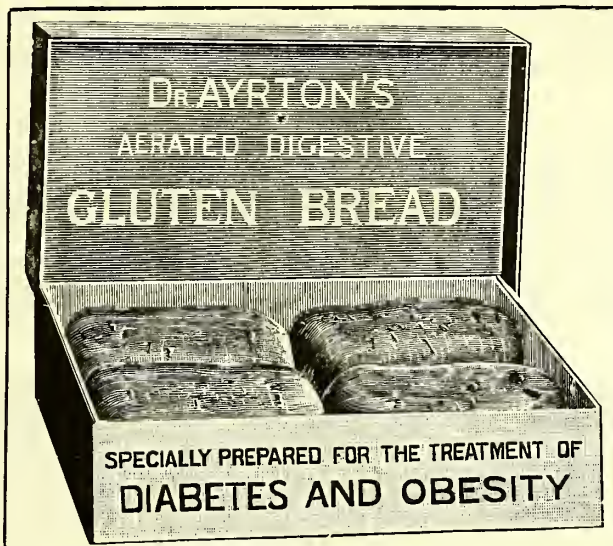
	PROTECTED RETAIL PRICE.	DOZEN.		PROTECTED RETAIL PRICE.	DOZEN.
LOSALL'S ASTHMA REMEDY ...	1/-	7/6 net.	PREPARED BARLEY ("Crown Brand.")		
LOSALL'S BALL ROOM FLOOR POLISH, in }	1/-	7/-	Usual 1/- size, lever lid tins. A good		
handsome decorated tins ... }			selling line ...	—	4/- net.
LOSALL'S SALT (well advertised), tins ...	6d.	3/6	MALTED FOOD. Usual 1/- size, lever lid		
" " " " " " " " " " " " " " }	1/-	7/-	tins. Buyer's name and address		
" " " " " " " " " " " " " " }	1/6	10/6	printed free on 3 dozens. Special	—	4/6
" " " " " " " " " " " " " " }			design label, name and address, on		
" " " " " " " " " " " " " " }			gross orders if desired ...		
" MILK FOOD, oblong tins, 1/- size	8½d.	5/6	LOSALL'S FOOT-ROT OINTMENT, ...	1/-	7/6
			enamelled tins }		

Chemists taking up the above really valuable, large profit-yielding lines, will find them an important adjunct to their business.

London Agents: F. NEWBERRY & SONS,; W. SUTTON & CO., 76 Chiswell Street, W. EDWARDS & SON, Queen Victoria Street, E.C.

If you want close up-to-date Quotations for superior and approved Counter Specialities, and for Pure Drugs, Chemicals or Pharmaceutical Preparations, don't fail to write to
LOFTHOUSE & SALTMER, Wholesale Druggists, HULL.

**Sample
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Dr. Ayrton's Aerated Gluten Bread.

SPECIALLY PREPARED FOR THE TREATMENT OF DIABETES AND OBESITY.

This Bread is prepared from the GLUTEN FLOUR without addition of any Starchy products and forms a superior substitute for ordinary Baker's Bread by reason of its nitrogenous constituents, which are present in a concentrated form for producing flesh, muscle, and force.

Many substitutes for Wheaten Bread are merely negative in action and do not produce **force** or **power**, and, in contrast, the **AERATED GLUTEN BREAD** will be found to be a most nutritious product.

Stored in a dry place the **AERATED GLUTEN BREAD** will keep for several months without deterioration, so that Chemists need not be afraid to stock this article where there is any prospect of its consumption.

The **Retail Price** is **2/6** per box of **4** fair sized Loaves, which will be found to effect a considerable economy on the part of those who have to rely upon this Bread as part of their daily diet.

The wholesale price for the 2/6 Boxes is 21/- per dozen.

It should be noted that persons suffering from Diabetes are found in the high, middle, and lower classes, and that in respect more especially of the two latter the cost of obtaining a reliable and palatable **GLUTEN BREAD** has considerably curtailed its use and proportionately retarded the progress of the patient.

At the lower price and larger quantities now offered, it is thought that a very large trade can be done by those Chemists who care to look after this class of business.

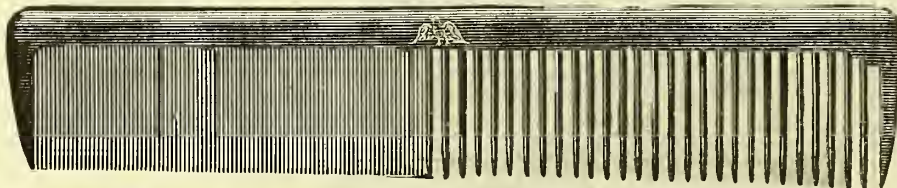
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CHEAPEST HOUSE in the TRADE for VULCANITE COMBS.

The following represent a few of our leading lines in Combs. For further particulars see our General Catalogue, pp. 234 to 257.



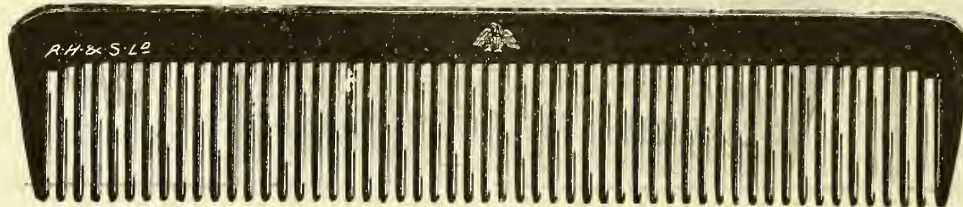
The "EAGLE" Brand.

(Regd. No. 45374.)

7 × 1 $\frac{1}{4}$ in. - 4/3 doz.

7 $\frac{1}{2}$ × 1 $\frac{1}{2}$ in. - 6/8 "

8 × 1 $\frac{3}{4}$ in. - 7/11 "



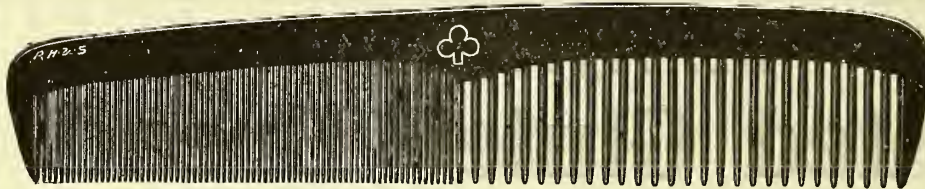
"EAGLE" Rakes.

Doz.

7 × 1 $\frac{1}{4}$ in. - 5/2

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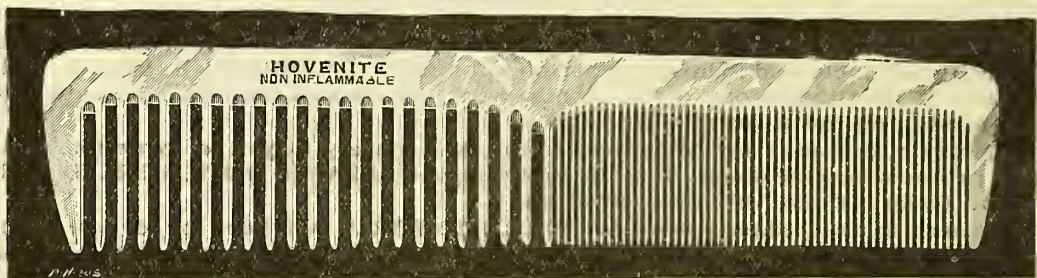
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7 in. - 4/6 doz.

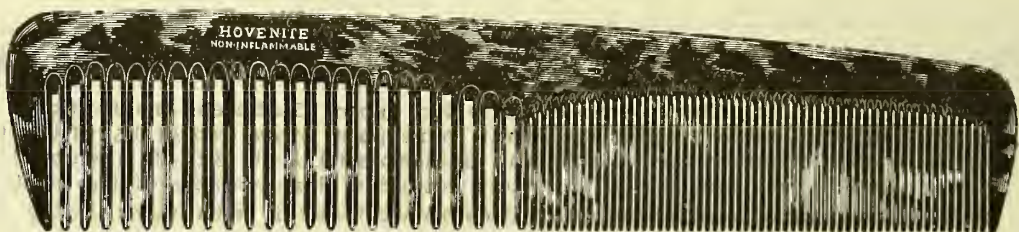
7 $\frac{1}{2}$ in. - 5/6 "

8 in. - 6/8 "

"HOVENITE" Brand. (Regd. No. 292010.) Non-Inflammable. A NEW MATERIAL.



Horn tinted White (as illustration), 7 $\frac{1}{2}$ in., 10/-; 8 in., 11/6; 8 $\frac{1}{2}$ in., 12/- per doz. 7 $\frac{1}{2}$ in., Tapered, 9/-; 8 in., 11/6; 7 $\frac{1}{2}$ in., Tapered, quilled backs, 11/- per doz.



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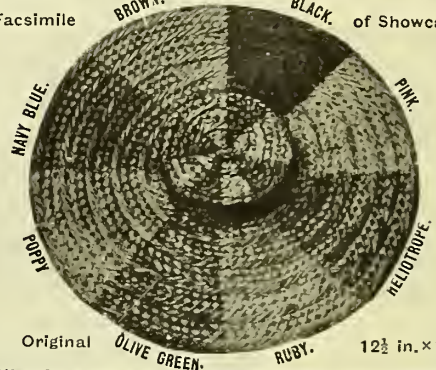
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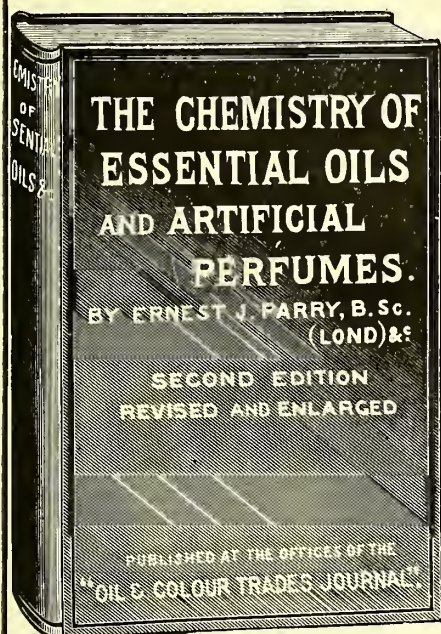
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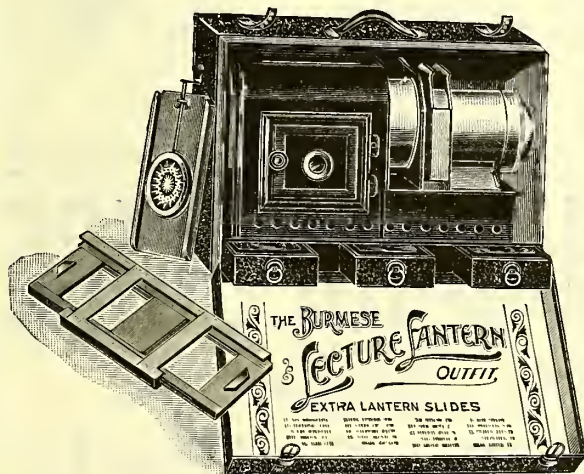
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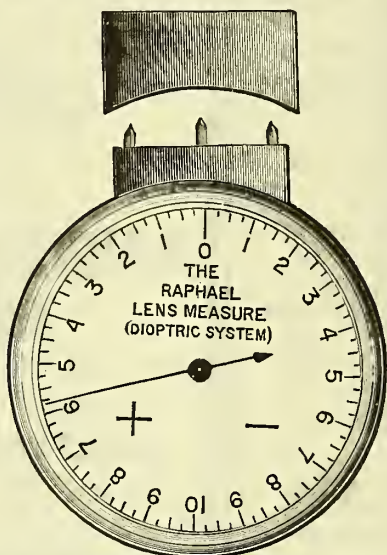
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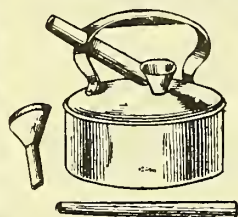
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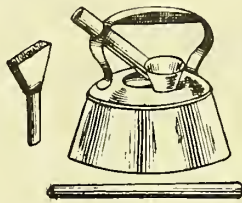
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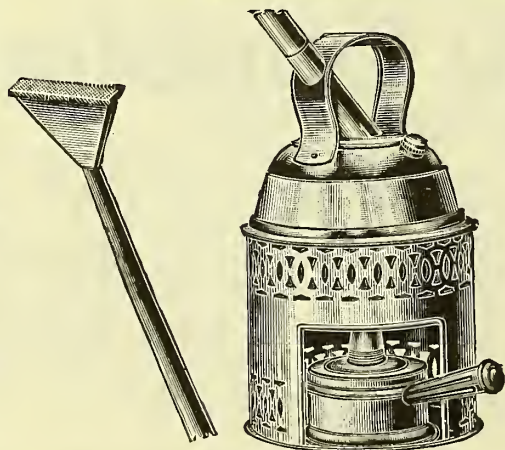
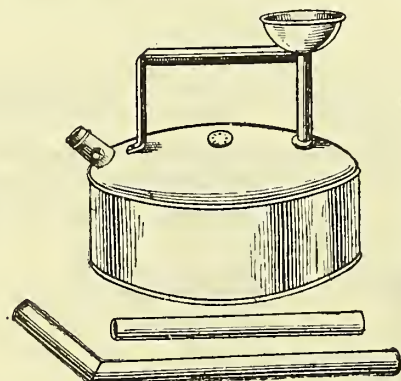
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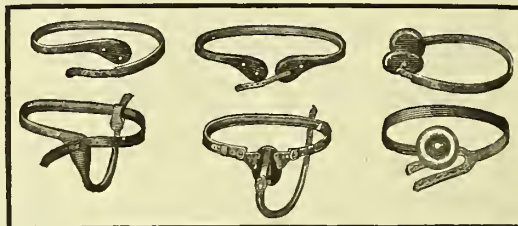
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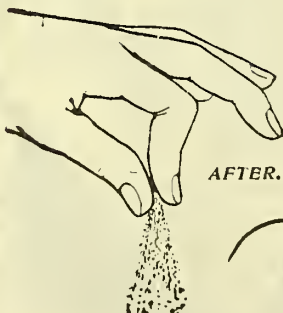
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TRADE 'TABLOID' BRAND CUBEBA COMPOUND
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MARK Issued in bottles of 100, at 14/- per dozen bottles

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MARK Issued in bottles of 100, at 26/- per dozen bottles

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MARK Issued in bottles of 25 and 100, at 8/- and 24/- per dozen bottles

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MARK Issued in bottles of 25 and 100, at 6/- and 16/- per dozen bottles

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MARK Issued in bottles of 25 and 100, at 9/- and 26/- per dozen bottles

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MARK Issued in boxes of 50, at 20/- per dozen boxes

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MARK Issued in white metal boxes of 25 and 80, at 6/- and 10/- per dozen boxes; also in bottles of 80, at 12/- per dozen bottles

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MARK (Trade Mark) Issued in bottles of 25 and 100, at 8/- and 18/- per dozen bottles

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6 dozen at 1/4 per dozen.
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For 12 Dozen.

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Guaranteed for five years when bottled.
1 Gross in each Bottle.
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Name and
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and of
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OUR WINTER ISSUE.

ON Saturday, January 30, the Winter Issue of THE CHEMIST AND DRUGGIST will be published. The time between then and now is short, but not too short for business houses to take advantage of its advertising pages in a manner which will help to make 1909 one of good business for them. Home trade is improving, and export trade in chemicals, drugs, medicines, and allied goods was better in 1908 than any other department of export trade. It suffered less, and improvement is believed to have set in. These make the opportunity of the Winter Issue good for advertisers. It will reach the proper people at home and abroad, for it goes to the best buyers in the British Empire and in foreign countries. Circulars and price-lists are accepted for insertion in the issue as insets, and they do their work well because they are kept with it for reference. Full particulars as to terms, etc., can be obtained by writing to the Publisher of the *C. & D.*, 42 Cannon Street, London, E.C. Early application is desirable. This note applies as well to those who are to advertise in the issue in any other manner. The artistic nature of our Winter Issue, the interest of its contents, and the stimulus it gives to trade merit care on the part of advertisers in effectively placing their goods before such a magnificent clientele of buyers.

Summary.

The subjoined paragraphs give the gist of the more important matters in this issue, with the object of showing at a glance what has happened during the week. See also "Contents" in the first column.

THE NEW ACT is still the centre of interest. Several chemists discuss some of its provisions in our correspondence columns, one (Mr. John E. Lord) says it is "the greatest disaster which has ever happened to pharmacy" (p. 98).

QUITE CONTRARY OPINIONS have been expressed by Mr. A. Hanson at Bradford (p. 89), and by Mr. J. F. Tocher and Mr. John Harrison at Newcastle-on-Tyne (Coloured Supplement).

COMPANIES AND TITLES are the subject of our third article expository of the Act. It is shown how completely companies are brought within the penal provisions of the statutes, without registration of them, and lists of the titles which may be used by persons and companies are included (p. 84).

THE COUNCIL of the Pharmaceutical Society of Ireland devoted the greater part of their meeting last week to discussion of the events which led up to the company provisions of the measure not being extended to Ireland. A full report of the discussion begins on p. 90.

FURTHER PROBLEMS arising from the new law are dealt with on pp. 99 and 100.

THE SACCHARIN CORPORATION, LTD., is being reconstructed (p. 78).

AN EXCEPTIONALLY INTERESTING dispensing problem is discussed on p. 99.

A REVIEW of the export and import trade of the United Kingdom in 1908 is printed on p. 86.

MR. LOUIS B. SMYTH, B.A., has been appointed professor of botany to the Pharmaceutical Society of Ireland (p. 93).

MR. BURROUGHS, of Messrs. John Thompson, Ltd., Liverpool, has been elected President of the P.A.T.A. (p. 70).

THE POLICE in provincial centres are prosecuting users and suppliers (not sellers) of abortifacients. Three cases are reported on p. 72.

THOSE WHO HAVE been troubled about the sale of unstamped scales should read the letter of the Deputy-Warden of Standards on p. 87.

MR. C. A. MACPHERSON, President of the Edinburgh District Chemists' Trade Association, figures this week in the Winter Session Gallery (p. 87).

FIVE CASES under the Dentists Act are reported on p. 76. In all cases the offence was the same as in *Barnes v. Brown*, but some novel points were raised.

THE MINOR EXAMINATION pass-lists (London and Edinburgh) are printed in the Coloured Supplement, where are several pages of news and other matters of interest.

THE MESSINA AND SICILIAN NOTES which begin on p. 81, include, besides the latest information about business matters, notes on essential oils issued by the Messina Chamber of Commerce before the earthquake.

"XRAYSER" DISCOURSES this week on the Messina disaster, and shows the connection of that part of the world with Arabic and European pharmacy. Living-in, Minor certificates, and Canada as a field for chemists are also discussed (p. 83).

THE DARLINGTON shops early-closing order includes chemists and druggists. A local pharmaceutical chemist, who was summoned for refusing to close his shop at 1 P.M. on December 23, pleaded that as a pharmaceutical chemist he was exempt (p. 75).

THE SALE OF FOOD AND DRUGS ACTS cases reported this week include one in London against Boots Cash Chemists, Ltd., in respect to lime-water. The defence is that the alleged contamination was due to the bottles used by the officers in sampling. Only half a pint was bought. The reserve sample has been sent to Somerset House (p. 76).

BUSINESS has now been fully resumed on the markets, but the demand generally has been somewhat disappointing. The Sicilian essences are still a feature, but prices are easier all round. Citrates are again dearer. Ergot, Bushire gum arabic, and ammonia sulphate are higher. Quicksilver is lower, but mercurials are unaltered. Large supplies of drugs were offered at the first auctions of the year (p. 93).

English News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Brevities.

The off-wine licence held by Mr. R. March, chemist and druggist, High Street, Stamford, has been transferred to Mr. W. S. Ennals, chemist and druggist, who recently took over the business.

At the resumed inquest on the body of Fanny E. M. Chadwick (*C. & D.*, January 9, p. 38) it was stated that no damage was done to the chamber by the explosion. Mr. Curtis Ford (*A. Boake Roberts & Co., Ltd.*) said his firm supplied the syphon of sulphur dioxide. The syphons are thoroughly tested before being sent out, the pressure in them is low—about $37\frac{1}{2}$ lb. to the sq. in. The explosion is unique, and the bottle must have received some external injury such as would be caused by a knock. The jury returned a verdict of accidental death, adding that there was no evidence to show how the explosion actually occurred.

At the inquiry into the death of a patient at the Hanwell Asylum, the Coroner commented upon the "happy-go-lucky" methods of administering medicine. One of the nurses stated she had prepared the medicine for three patients which was contained in as many mugs. Wishing to go off duty she arranged with another nurse to give the medicine to the patients. The instructions were to give the deceased "the dark-red medicine, the second patient the light-red, and the third the green." During medical evidence it was stated that the dose wrongly administered to deceased contained $1\frac{1}{2}$ grain of morphine, but that death was due to chronic bronchitis, and was in no way accelerated by the narcotic.

London Institution and Society of Arts.

The voting of the proprietors of the London Institution upon the proposed amalgamation with the Royal Society of Arts has resulted decisively in favour of the scheme, 490 out of the 571 replies being in favour of the scheme. At a meeting of the London Institution Board on January 13 it was decided that a special general meeting of the proprietors should be summoned, at which the proposals of the Board should be submitted for approval. This will probably be followed by a ballot, which, if favourable, will allow the management to discuss with the Royal Society of Arts a scheme of amalgamation on the lines formulated in 1905.

Comptroller-General of Patents.

The President of the Board of Trade has appointed Mr. George Ranken Askwith, K.C., Assistant-Secretary (Railway Department) of the Board of Trade, to succeed Sir C. N. Dalton, K.C.M.G., C.B., as Comptroller-General of Patents, Designs, and Trade-marks, on his retirement at the end of February next. Mr. Askwith is a son of the late General W. H. Askwith, who was educated at Marlborough and Oxford (Brasenose), and took a first-class in history. He was called to the Bar in 1886, and besides assisting Sir Henry James (Lord James of Hereford) in many cases, was counsel on the Venezuelan Arbitration to the Commissioners of Works, and for the Crown in pccrage claims. He took silk last year. He has had special experience at the Board of Trade of commercial and industrial questions, and his appointment as Comptroller-General will give scope to his judicial and forensic qualities.

Chemist's Private Home.

An inquest was held at Handsworth on January 11 respecting the death of Annie Maria Madden (26), a London lady, who lived at the private home at Church Lane, Handsworth, conducted by Mr. John H. D. Jenkinson, chemist and druggist. Catherine Madden, sister of the deceased, who also resided at the home, said during the night of January 7 she was awakened by a noise as if her sister had fallen, but as she became quieter witness did not mention the matter until the following morning, when Mr. Jenkinson examined the patient, and said she was suffering from weakness as a result of the fall. At

night a doctor was fetched, but her sister died early on the Saturday morning. Witness stated that both she and her sister had received every attention at the home. Mr. Jenkins in his evidence said he was a chemist and druggist, but possessed no medical diploma. He had carried on the home for twelve months, receiving principally consumptive cases, though he had also three cases of cancer. He had previously been a manufacturer of poultry, pigeon, and dog medicines. He gave deceased a tonic, chiefly iron and quinine, and such laxatives as were necessary. He considered she was getting better. Dr. Tomlinson (Handsworth) attributed death to heart failure, brought on by exhaustion due to consumption of long standing. The jury brought in a verdict of death from natural causes, and expressed the opinion that a doctor should have been called in earlier.

Proprietary Articles Trade Association.

A meeting of the Council was held at Anderton's Hotel, Fleet Street, E.C., on Thursday, January 7, Mr. F. W. Powell in the chair. There was a large attendance of members. In reporting the result of the recent election the Secretary (Mr. W. S. Glyn-Jones) said that in the wholesale and retail sections a contest had taken place without alteration in the personnel of these sections. The election of new officers for the ensuing year was then proceeded with. The retiring President (Mr. Powell) in moving the election of Mr. Burroughs, of Messrs. John Thompson, Ltd., Liverpool, said that it was an understood rule of the Association that each section be honoured in turn by having one of its members in the presidential chair. This year it was the turn of the Wholesale Section, and he was quite sure Mr. Burroughs would fill the position with honour and dignity. The resolution was unanimously agreed to. The following gentlemen were elected Vice-Presidents for 1909:

Manufacturers' Section	... Mr S. Kutnow.
Wholesale Section	... Mr. S. Roberts
Retail Section	... Mr. C. J. G. Bunker.

Mr. A. Tebbutt was re-elected Hon. Treasurer, and Messrs. Powell, Beetham, Barclay, Edwards, and Barnes, in addition to the officers of the Association, were elected to serve on the Executive Committee. Several applications for the addition of articles to the Protected List were considered, and in some cases refused on the ground that the prices submitted showed unsatisfactory profits.

Contracts.

Canterbury City Council.—Messrs. Walker & Harris, Sun Street, appointed chemists for six months.

Maidstone Board of Guardians.—Messrs. T. G. Stonham & Son, chemists, 71 Bank Street, Maidstone, for drugs, at 82*l.* 3*s.* 4*d.*

Loughborough Corporation.—Mr. G. J. Baldwin, chemist and druggist, 23 High Street, Loughborough, for the supply of drugs, etc.

Tring (Herts) District Council have decided to obtain a supply of anti-toxin for the use of the town practitioners at their discretion.

Hull Corporation.—Mr. T. W. Robinson, chemist and druggist, 253 Anlaby Road, Hull, for the supply of drugs to the Willerby Asylum.

Camberwell Guardians.—Messrs. Cow & Co., for twelve water-beds at 2*l.* 0*s.* 6*d.* each. Tenders are to be invited for an additional seventy-two water-beds.

Stockport Town Council.—Mr. J. C. Arnfield, Ph.C.,



MR. BURROUGHS.

7 and 9 Low Hillgate, Stockport, for the drug-supply to the isolation hospital during the ensuing year.

Chatham Town Council.—For the following disinfectant supplies to the Public Health Committee: Lewes Chemical Co., Ltd., carbolic powder at 5*l.* 7*s.* 6*d.* per ton; Newton, Chambers & Co., Ltd., Izal disinfectant fluid at 3*s.* 6*d.* per gal.; Adcock, Easton & Co., sulphur candles at 9*s.* 3*d.* per half-gross; the Sanitas Co., Ltd., mercury perchloride at 1*s.* per gal., and green manganate of soda at 1*l.* 8*s.* per cwt.; Burt, Boulton & Haywood, Ltd., formalin tablets at 3*s.* 6*d.* per 1-lb. tin, and chloride of lime at 7*s.* 6*d.* per cwt. Tenders were received from six firms.

Marylebone Borough Council.—A. Boake Roberts & Co., Ltd., for sulphur dioxide, in 20-oz. tins at 12*s.* per doz. and 6*l.* 6*s.* per gross, in 70-oz. tins at 1*l.* 16*s.* per doz. and 18*l.* 18*s.* per gross, less 7½ per cent. discount; Executors of the late Wm. Sharratt, for Karzene in 8-oz. bottles, at 2*l.* 8*s.* per gross; the Sanitas Co., Ltd., for Okol in 8-oz. tins at 3*l.* 6*s.* per gross; Newton, Chambers & Co., Ltd., for Izal in 1-pint tin bottles, at 8*l.* 8*s.* per gross. Chemicals & Saeccharin, Ltd., obtained the contract for formalin tablets, at 1*l.* 15*s.* 9*d.* per 20 lb. in kegs and 1*l.* 18*s.* 9*d.* in tins. Tenders for the tablets were also sent in by the Sanitas Co., 2*l.* 15*s.*, and Executors of W. Sharratt, 4*l.* The tender of A. C. Young & Co. was accepted for carbolic acid, at 10¾*d.* per gal., and carbolic powder, at 2*l.* 10*s.* 6*d.* per ton. The corresponding prices in other tenders were: Burt, Boulton & Haywood, Ltd., 10¾*d.* and 2*l.* 13*s.* 6*d.*; Executors of W. Sharratt, 1*s.* 2*d.*; George Jennings, Ltd., 1*s.* 7*d.* and 4*l.* 10*s.*; the Wade Disinfectant Syndicate, 2*s.* 9*d.* and 6*l.* 10*s.*

Midland Notes.

Mr. Featherstone, F.C.S., has removed his factory from Farm Street to Latimer Street, Birmingham.

A seam of fullers' earth 15 ft. thick has been discovered at Walsall 80 ft. below the surface of the ground.

Mr. W. R. Sellick, Ph.C., as chairman of the Stourbridge Council, has received a demand signed by 200 people for a poll upon the subject of the acquisition of the Stourbridge Waterworks.

Opticians' establishments are multiplying very fast in Birmingham. Another one is being started at 1 Waterloo Street by Mr. Harrison, who was formerly with Messrs. Lucking in Corporation Street.

The local committee of the Midland Section of the Society of Chemical Industry will hold a high-class smoking-concert at the Congreve Street Hotel, Birmingham, on the evening of January 22 at 8 p.m.; Professor Frankland is to preside.

By an interesting arrangement of mirrors the contents of several Birmingham pharmacists' shop-windows are made to assume a convex shape, with an almost interminable array of bottles on shelves at the corners of the convexity. It makes an effective show.

The exhibition of scientific work held at the Midland Institute, Birmingham, includes some wonderful productions by the Lumière colour-process executed by Mr. W. Partridge, of Messrs. Southall Bros. & Barclay's, chemical and photographic apparatus department.

An interesting revival of old-time analytical discrepancies occurred at Worcester on Monday when a dairyman was summoned for selling milk deficient in non-fatty solids to the extent of 18.8 per cent. The City Analyst (Mr. C. C. Duncan) found solids not fat 6.9 per cent. and fat 2.7 per cent., while Messrs. Bostock, Hill, and Rigby, public analysts, Birmingham, found 8.65 per cent. and 3.97 per cent. respectively. The Bench decided to submit the reserve sample and the remainder of Mr. Duncan's sample to the Somerset House authorities, and accordingly adjourned the case.

Manchester Notes.

The King is to open the new Royal Infirmary in Manchester the first or second week in July.

The date of the whist-drive arranged by the Manchester Pharmaceutical Association has been changed to February 8. It will be held at the Grand Hotel, Aytoun Street. Tickets (gentlemen 3*s.*, ladies 2*s.* 6*d.*) can be obtained from Mr. James Grier.

"Bombs" composed of little bulbs of sulphuretted hydrogen dropped in the concert and exhibition rooms at

Lewis's establishment have got two boys into trouble. They were bound over to keep the peace and pay the costs of the prosecution.

Liverpool has been criticising the inspection of foods by the Manchester (Port) Sanitary Board, and Manchester has replied that they can prove that they lead the way as far as rejection of impure stuffs go, and their trade has not decreased, as suggested by Liverpool.

The Northern Photographic Exhibition is being held this year in Manchester, and is a very fine exhibit of all that is good (only 671 pictures out of 2,000 being hung). It is honoured by being housed in the City Art Gallery, lent by the Corporation from January 7 to January 27. Some wonderful autochrome specimens of photographs are here shown to the public for the first time in this country.

Owing to the removal of the infirmary from the centre of the city there is some trouble at present in regard to accident cases, the time occupied in conveying patients to the new building being considerable, and in one case there has been a death. The office specially set apart for the accidents in the old part (and still the most convenient) closes at 6.30 p.m., and it is after this that many accidents have happened—hence the trouble.

Sheffield Notes.

A meeting of the Council of the Sheffield Pharmaceutical and Chemical Society has been fixed for Monday, January 18.

Messrs. Watson & Co., chemists and druggists, who specialise in gramophones, gave an entertainment on January 6 to the boys at the Borsal Club in Button Lane.

During the recent severe weather thermometers exhibited outside the pharmacy of Mr. B. Burrell, Ph.C., Rustlings Road, showing the temperature day by day, have attracted a considerable amount of interest.

Local pharmacies are now being disrobed of their Christmas shows—some of them both attractive and artistic—and ordinary everyday goods are taking their place. Christmas trade is stated to have been, if anything, rather above expectation, and things are expected to brighten before long, but trade generally is very bad indeed.

Football.

Moscrop's v. Legat's.—The employés of two Bolton wholesale drug-houses—Messrs. T. Moscrop & Co., Ltd., and Mr. W. H. Legat—engaged in their annual encounter at Deane on January 9, in a drizzling rain. Moscrop's kicked off, and soon swept down the field, causing the opposing goatee, Holgate, to handle. The teams went at it hammer and tongs, some of the cruder efforts causing considerable merriment. However, no goals accrued before the interval. In the second half, Legat's, showing up much better, scored through Dean, who hooked the ball into the net from an awkward position. Moscrop's now made strong efforts to equalise, and were not long in succeeding. E. Holmes centring for Orrell to put through. Orrell also found the mark a second time, and Legat's retired beaten by the odd goal in three.

Thefts.

At the Brighton Police Court on January 12, Alfred Gay (26), porter, was bound over for twelve months for stealing a bicycle, value 4*l.* 10*s.*, the property of Mr. W. H. Hewett, chemist.

At the Bucks Quarter Sessions on January 5, George Foster, seaman, was sentenced to four months' hard labour for stealing eight sets of artificial teeth, the property of Messrs. Fuge & Co., chemists, High Wycombe (*C. & D.*, December 6, 1908, p. 848).

At Hull Police Court on January 7, William G. Bridges (32), packer, was placed under the Probation of Offenders Act for stealing three boxes of Beecham's pills and a bottle of Hazeline Snow from his employers, Messrs. Milburn, Ltd., 102 High Street.

At Plymouth Quarter Sessions on January 8, two youths named Albert Morgan and Alfred Bellamy were bound over under the new Probation Act for stealing 16*s.* 6*d.* from the warehouse of Messrs. Breeze, Jackson, & Green, Ltd., wholesale druggists, Plymouth.

At Leicester on January 5, Violet and Marian Whitmore, schoolgirls, pleaded guilty to stealing a bottle containing

15 oz. of cachous, value 8s., from the shop of Mr. H. Howitt, 140 Cavendish Road, Leicester, and were discharged on their mother agreeing to chastise them.

Burglars have been busy of late in the Bolton district, and the premises of Messrs. H. B. Pare & Co., Ltd., chemists, 89 Deansgate, received attention from a member of the "profession" on January 11. Two police-constables heard a crash of glass, and on seeking the cause found that the office-window of Messrs. Pare's had been broken, and, proceeding inside, after a severe struggle they captured the intruder, who turned out to be Thomas Smith, labourer. The following morning the Bolton magistrate, after hearing the evidence, committed Smith for trial to the Quarter Sessions.

An audacious attempt made recently to rob the shop-till of Mr. William C. Sayers, pharmaceutical chemist, 63 High Street, Lewisham, London, S.E., proved successful. While the assistants were away at dinner a young man entered the pharmacy and asked Mr. Sayers how much he wanted for the packing-case outside. The "customer" was told that it was going back to the consigners. However, he said that he did not mind paying any reasonable price, as it was just what he required. Anxious to oblige, Mr. Sayers went out to ascertain the charge upon it. Meanwhile the man explained that he was making inquiries on behalf of a friend, whom he indicated on the opposite side of the road, thus diverting Mr. Sayers' attention from the shop. When Mr. Sayers returned, after only a brief absence, the till had been cleared, about 2l. 12s. being missing. Apparently three men were concerned in the conspiracy.

Alleged Supplying of Abortifacients.

At the Chesterfield County Police Court on January 11, Elizabeth Abbott, the wife of a Carr Vale collier, was charged on remand with administering to herself noxious drugs for an unlawful purpose. Inspector Fennell stated that the woman admitted having obtained certain ingredients, one of which was diachylon. Mr. F. W. Elliott, chemist and druggist, Bolsover, also gave evidence, stating that he considered diachylon should be placed in Part I. of the Poisons Schedule. The defendant was committed for trial at the Assizes, bail in 10l. being allowed.—Charlotte Johnson, another collier's wife, was also committed for trial on a charge of aiding and abetting Abbott by providing the recipe. Bail was allowed in the same amount.

At the Coalville Petty Sessions on January 8, Harry Bickley, engine-driver, was charged with supplying pills and powders for an unlawful purpose to a woman at Hugglescote. A married woman assisted the police in obtaining evidence. Mrs. Maud Pickering stated in her evidence that, according to police instructions, she saw defendant in his lodgings and told him that she had heard that he had got some "stuff" for young girls in a certain condition. Bickley said he would get some for her, and several days later gave her four small packets, which he said contained powders, with instructions as to taking them. The following month he supplied her with a box of nine pills. Bickley told her that if the pills did no good she would have to consent to his using an instrument. She saw defendant again on December 1, and he then gave her two lots of pills—one of nine and the other of four. She was to take one only of the four pills, as they were "extra strong." Later she wrote asking for more pills. Defendant had been served with a notice to produce the letter, but he now denied that he ever received it. A copy of the letter was put in and read. Mrs. Pickering, on resuming, stated that more pills and powders were supplied on the 23rd. She eventually arranged with Bickley for him to bring an instrument, and meet him at night on the foot-path between Beardon and Hugglescote. The police went instead, and found Bickley waiting at the spot arranged. An instrument was found upon him, but he was not charged with using it, although Mrs. Pickering gave an instance in which defendant said he had used it on a young girl. The pills and powders had been given by Mrs. Pickering to the police, who forwarded them to Dr. Dyer. Dr. Bernard Dyer, F.I.C., gave evidence as to the composition of the powder and pills. The ingredients were strongly purgative, and would cause nausea, vomiting, and diarrhoea. The police

found at the defendant's lodgings forty-four pills in a box marked "Female." Bickley, who pleaded not guilty, was committed for trial at the next Assizes. Bail was granted in the sum of 50l. and two sureties of 30l. each.

Postmaster Charged.

At Accrington on January 1, Mr. W. R. Cameron, chemist, of 100 Abbey Street, Accrington, was brought before a special Court on a charge of converting to his own use the sum of 176l. 0s. 2½d. The proceedings were brought by the Post Office authorities under the Post Office Act, 1891. Mr. Cameron was in charge of the Abbey Street sub-post-office. Mr. Elliot, for the prosecution, said that prisoner admitted the offence. He was appointed as sub-postmaster at the Abbey Street office on July 1, 1908, and by December 9 a sum of 176l. was missing, in all probability through the sale of postal orders. The Post Office Surveyor had discovered that the discrepancy arose through the prisoner giving an over-statement of his stock. Prisoner was remanded. The prisoner appeared before the justices again on January 12, when his solicitor, Mr. F. Rowland, stated that on consultation with Mr. Elliott, the prosecuting solicitor, they had come to the conclusion that no purpose would be served by offering any defence that day. After more detailed evidence as to the statements made at the previous hearing the prisoner was committed for trial at the Manchester Assizes. Bail was not applied for. A further charge against Mr. W. R. Cameron was proceeded with at the Accrington Court on January 13 for the balance of arrears of rates. A sum of 3l. 19s. 3d. was owing on the general District rate and a similar sum on the Poor-rate in respect to defendant's establishments in Abbey Street and Blackburn Road. An order to pay was made.

Analysts' Affairs.

The Hove public analyst (Mr. S. A. Woodhead) examined during the last quarter four samples of camphorated oil, which were up to standard.

Mr. Wm. Thomson, F.I.C., has been appointed agricultural analyst for Stockport at a fee of 10s. 6d. for each analysis, and 2l. 2s. for each case in which his attendance at court is required.

Mr. Edward Hinks, B.Sc., F.I.C., was appointed public analyst for Surrey at the meeting of the Surrey County Council held on January 12. There were twenty-seven candidates for the appointment. Of the three candidates appearing before the committee, Mr. E. J. Parry, B.Sc., F.I.C., obtained a majority of one vote over Mr. Hinks upon a show of hands, but in the vote by ballot between these two applicants Mr. Hinks secured a majority of six votes. Mr. Hinks, who is twenty-nine years of age, was senior assistant with the late Sir Thomas Stevenson, the last holder of the appointment, for seven years. The fees average about 600l. a year. This makes the third public appointment obtained by Mr. Hinks during the last twelve months, the other two being public analyst to the boroughs of St. Pancras and Reigate.

Irish News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Contracts.

Messrs. Boileau & Boyd, Ltd., Dublin, and Messrs. Fallon & Co., Ltd., Grafton Street, Dublin, have been appointed contractors for the supply of drugs and surgical dressings respectively to the Royal City of Dublin Hospital.

Personal Items.

Mr. F. T. Smith, registered druggist, Antrim, has been re-elected an urban councillor for that town.

Mr. T. B. Gorman, registered druggist, Bangor, co. Down, has been appointed a member of the Bangor School Attendance Committee for the ensuing three years.

Mr. John E. Connor, J.P., pharmaceutical chemist, Warrenpoint, has been nominated for one of the vacancies on the Warrenpoint Urban Council. Mr. Connor retires by rotation, but his seat is contested.

Mr. James Guiler, pharmaceutical chemist, Ormeau Road, Belfast, contributes to the current number of the "Central Presbyterian Association Magazine" a racy article on "Northern Capitals," in which he describes a visit to the capitals of Northern Europe.

Mr. Maxwell Thompson was, on January 9, elected President of the North and West of Ireland Commercial Travellers' Association. Mr. Thompson is on the road for Messrs. John Clarke & Co., Ltd., wholesale druggists, Corporation Street, Belfast, with which firm he has been connected for a quarter of a century.

Analyst's Remuneration.

At the last meeting of the North Dublin Guardians a report was read from the committee appointed to consider Sir Chas. Cameron's claim for remuneration for analysis of food and milk for the Union (see *C. & D.*, January 2, p. 4). The report dealt with the question of the milk-standard, recommending its reduction to the legal limit, 3 per cent., and that a number of improvements should be made in the system of inspecting milk, but entirely ignored Sir Charles' claim for payment. The report was referred to another committee.

Scots News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Successful Science Students.

The "Kelso Mail," in noticing the success of Kelso chemists' apprentices in our "Corner for Students," states that they are students of the evening-classes conducted at Kelso High School by Mr. A. Goodfellow.

Pharmaceutical Board of Examiners.

At the meeting of the Board of Examiners for Scotland held last week at the Pharmaceutical Society's House,

36 York Place, Edinburgh, the members appointed Mr. D. B. Dott, Ph.C., F.I.C., F.R.S.E., to act as chairman of the Board when the President and Vice-President are not present, and in succession to Mr. George Lunan, F.C.S. The portrait of Mr. Dott which we give was taken at his laboratory bench the other day, and is characteristic. He is now in practice along with Mr. Dougall, B.Sc., as an analytical and consulting chemist, but has spent the greater part of his working life as a manufacturing pharmaceutical chemist, and is one of the



Mr. Dott.

world's leading authorities on the chemistry of opium and its alkaloids.

Aberdeen and the North.

Mr. A. M. Lee, chemist and druggist, Strichen, has been appointed chemist to the Mormond Lodge of Free Gardeners.

The rumour that the Northern Co-operative Co., Ltd., is to open a drug-store in Holburn Street, Aberdeen, is incorrect.

Mr. John Main, chemist, who has been elected Vice-President of the Orange River Colony Pharmaceutical Society, was at one time in business in Aberdeen.

Mr. P. D. Milne, chemist, Market Street, Aberdeen, has issued to his customers a very pretty wall-calendar. The subject is "Tokens of Autumn," by Bryson, reproduced by colour-photography.

Two snow-scenes illustrating the effects of the recent storm in the Buchan district appeared in the Aberdeen "Evening Express" last week. They were reproduced from photos taken by Mr. James Walker, chemist, Ellan.

Mr. Chas. Simpson, chemist, Exchequer Row, Aberdeen, is removing shortly to premises near the top of King Street. Owing to city improvements the building in which his present pharmacy is situated is to be demolished. It is the oldest in the city.

The Glasgow White Powder.

The substance which fell from a burst barrel in the street, and which was picked up by a woman and used for making a pudding (*C. & D.*, January 2, p. 5), is stated to be tartar emetic. The results of eating it proved serious, but not fatal. The antimony salt is largely used by dyers as a mordant.

Welsh News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Contracts.

Messrs. Corbyn, Stacey & Co., London, have secured the contract for the supply of drugs to the Cardiff public sanatorium for the next six months at 33*l.* 17*s.* 9*d.*

The Wrong Man.

The man Daniel Richards, who was arrested on suspicion of breaking into the shop of Mr. D. Harries, chemist and druggist, Queen Street, Cardiff (*C. & D.*, January 9, p. 39), was able to prove an *alibi*, and was accordingly liberated from custody.

What is in a Name?

"Pharmacist," writing to the "South Wales Argus," says, *re* the Poisons and Pharmacy Act:

Company chemists retain the title "chemists and druggists" purely as a trade designation, but the private chemist will use the title "pharmacist" professionally. The doubt which has hitherto existed as to whether a chemist and druggist is a tradesman or semi-professional man will now cease, as legally the title "pharmacist" is a professional one.

French News.

(From the "C. & D." Paris Correspondent.)

LEGACY FOR THE PASTEUR INSTITUTE.—Baron Bessières has left a legacy of 80,000*f.* (3,200*l.*) to the Pasteur Institute, Paris, to be employed in scientific researches in accordance with special instructions he has left with his executor.

MONUMENT FOR A DENTIST.—A Franco-American Committee has been formed in Paris to erect a monument here to Horace Wells, who, as a dentist at Hartford, Connecticut, was the first to give nitrous oxide gas in dental operations.

PRISON FOR A PHARMACIST.—M. Léon Lafont, a pharmacist, has been sentenced to fifteen days' imprisonment for resisting the police and to a fine of 15*f.* for brawling in connection with the demonstrations in the Latin quarter of Paris on the occasion of the first lecture at the Sorbonne by M. Thalarnas, whose lectures on Joan of Arc had displeased a section of the students.

FRENCH SPECIALITIES IN RUSSIA.—It appears that French pharmaceutical specialties were among the imitations foisted on the Russians, as reported in the *C. & D.* some time ago, and news has just reached Paris through official sources. The Governor-General of Odessa has given orders to have all the specialties verified as to their authenticity that are on sale in the pharmacies and drug-stores of Odessa.

PARIS ACADEMY OF MEDICINE.—Among the prizes awarded at the recent annual meeting of the Paris Academy of Medicine are the following: Henri Buignet Prize (1,500*f.*) to M. E. Léger, hospital pharmacist, Paris, for researches on "Hordenine, alkaloid taken from barley." Prix Desportes (1,300*f.*), honourable mention to MM. Em. Perrot, professor at the Paris School of Pharmacy, and

P. Hurrier, doctor of pharmacy, for a paper on the "Annamate Materia Medica and Pharmacopeia." Ernest Godard Prize (1,000f.) to Dr. F. W. Pavy, London, for his researches on "Carbo-hydrates and Diabetes."

PATENTS BILL.—A proposal is on foot to make the provision effective in the French Patent Act of 1844, which enacts that failure to exercise patent rights shall entail lapse of the patent. The clause that has been drafted is as follows:

Patent rights shall be held to lapse in the event of failure on the part of the holder either to exercise his rights in France or in the French colonies for a period of three years after applying for his certificate, or to resume exercise after a similar interval, or, secondly, in the event of only partial exercise of the patent in French territory. In the second event the Patent Courts will be invested with discretionary powers to call upon the holder of the patent to show cause why he should not exercise his rights in French territory "in an adequate degree."

THE PIGMENTS OF THE ANCIENTS.—M. Icilio Guareschi, an Italian, proposes to examine by the light of modern science in general, and chemistry in particular, the reasons why the pigments of the ancients were so much more stable than those of our day. In this connection we can hardly boast of "modern progress." The frescoes of Pompeii, the dyed textiles of Egypt and Antioch, contrast favourably with some fifty-year-old paintings in modern museums—many already almost "illegible." The question of colours and inks, so trifling at first sight, acquires importance when it is taken into consideration that on this minor detail rests the transmission of twentieth-century art and literature to future ages. M. Guareschi, it appears, is publishing, with scientific comments, ancient works treating of colours.

Australasian News.

The fullest information regarding the Australasian drug-trade and pharmacy is given in "The Chemist and Druggist of Australasia," copies of which can be obtained at 6d. each, post free, from the office of "The Chemist and Druggist," 42 Cannon Street, London, E.C.

New South Wales.

WAGES BOARD.—An official intimation was received from the Arbitration Court that the Judge had decided that an election should take place of four master pharmacists and four assistants, the Court to appoint from the four elected two members of the Board, the other two to be held in reserve in case of death or disability (see *C. & D.*, January 9, p. 41). There are 950 registered pharmacists in New South Wales, and about 350 master pharmacists who actually carry on pharmacies with about 770 assistants (including apprentices and clerks). The Shop Assistants' Union claim sixty-five members, so that if their representatives were elected the Union would have an influence on the Board beyond what they are entitled to. Every person eligible to vote must take steps to get himself registered as a voter by making a prescribed statutory declaration.

PURE FOOD BILL.—During the discussion on this measure in the House of Assembly on November 17, Mr. Carmichael moved a sub-clause compelling the manufacturer of a food or drug to supply the names of the ingredients when requested by the Board. He explained that this was because it is almost impossible for compounded articles to be accurately analysed. Mr. Wade (the Premier) resisted this, as he said the governing principle on the second reading had been that it was not desirable to compel patent-medicine proprietors to make public the ingredients of the medicine they manufactured. It was necessary to protect the legitimate trader in keeping to himself the ingredients and proportions of his formula. The question was debated for half-an-hour, but on division Mr. Carmichael's amendment was defeated. Mr. Carmichael also moved a clause making public advertisements a contract between advertiser and purchaser, but it was defeated. During the debate the Premier mentioned that the purchaser has at present a cause of action against an advertiser for untrue statements. Another speaker referred to a specific on the market which consists of a tablespoonful of lysol in a pint of water; it costs 3d. a gallon and sells at 2s. 6d. a small bottle. In regard to publishing the results of Government analyses of

injurious medicines and foods an amendment was proposed to penalise those journals which refused to insert the particulars sent by the Government, but the penalty clause was rejected. Another suggestion was that a prescription containing opium or similar drug should be initialled each month by a medical practitioner with a view to checking the formation of drug-habits. The Premier said he was willing to consider the proposed check on another occasion, and on this assurance the amendment was withdrawn. The debate lasted for several hours. It was reconsidered on November 19 and the report adopted.

Queensland.

Mr. R. C. COWLEY, new director of the College of Pharmacy, Brisbane, arrived during December. At Adelaide he was met by Mr. J. H. Young and Mr. Gryst and taken up to the city, where he lunched with members of the Council and Pharmacy Board and was shown round the city. In Melbourne Mr. Lacey (President) and Mr. H. W. Shillinglaw, Registrar of the Pharmacy Board, called on him at the boat and took him to the College of Pharmacy. He was entertained at lunch on December 8.

Japanese Jottings.

(From the "C. & D." Correspondent.)

MILK-STANDARDS do not exist in Japan, and it is proposed that the Japan Pharmaceutical Society formulate milk tests and standards.

THE OSAKA DRUGGISTS have contributed a sum of 8,800 yen to the endowment fund of the Japanese Pharmaceutical Association.

THE TOKYO DRUG-TRADERS' UNION held a brilliant festival on November 23 in honour of one "pharmaceutical ancestor" each of Japan, China, and Europe.

DR. TAHARA, the Japanese representative on the International Opium Commission, which meets at Shanghai on February 2, will leave Japan in company with other scientists in January.

THE REGULATIONS for the Qualifying examination of the Japan Pharmaceutical Society have been approved and come into force in 1910. They are as follows:

The education of applicants must be equivalent to that of graduates from public or private pharmaceutical colleges.

Candidates for the Qualifying examination should be—(a) graduates of high schools, (b) graduates of appointed pharmaceutical schools, or (c) graduates of public or private pharmaceutical colleges, who, however, need not be re-examined.

THE FOLLOWING LIST shows the number of medical practitioners, pharmacists, druggists, and manufacturing chemists in Japan in the years 1903-1907 inclusive:

Year	Practitioners	Pharm.	cists	Druggists	Mfg. Chemists.
1903	...	35,317	2,924	26,837	2,418
1904	...	33,115	*3,201	27,315	2,368
1905	...	33,508	*3,201	28,255	2,389
1906	...	36,776	*3,541	29,113	2,576
1907	...	under investigation		31,287	2,706

* 19 foreigners opening pharmacies.

† 21 foreigners opening pharmacies.

THE PATENT-MEDICINE TAX in Japan yielded the following amounts in yen (=2s. 0½d.) during the ten years from 1897 to 1906 inclusive:

Year	Business-tax	Stamp-duty
1897	...	107,921
1898	...	111,504
1899	...	113,525
1900	...	117,799
1901	...	122,974
1902	...	126,512
1903	...	130,846
1904	...	169,062
1905	...	200,969
1906	...	205,362

THE GRADUATES IN PHARMACY who were recently granted their degrees by the authorities of the medical colleges at Kanasawa, Chiba, Sendai, and Nagasaki total forty-eight, including one Chinaman, while twenty-six candidates passed the State examination and registered as pharmacists in October.

Legal Reports.

Trade Law.

Suing for Arrears.—In the Court of Session, Edinburgh, on January 12, Lord Sherrington closed the record on an action by Mr. Arthur W. Ritchie, chemist and druggist, Montrose, against his mother, Mrs. Katherine Blyth Ritchie, 57 High Street, Langholm. Pursuer states that in August 1899, after having qualified as a chemist, he went to Langholm, at his mother's request, to manage her business of chemist and dentist. His remuneration was to begin at £200 a year, rising by 10% every two years to £500, and, in addition, 10 per cent. on all money drawn in the dentistry business. He remained in Langholm till March 1903, at which time, he says, his salary was in arrear. He sues for £450, as due to him. Defender says she did not engage the pursuer. She looked after the businesses herself. There was no question of salary being paid to the pursuer until family differences arose in the latter part of 1907. He received maintenance, clothing, pocket-money, and holiday and personal expenses, and there was an understanding that he might ultimately succeed to the business. It is maintained that there is nothing due to the pursuer, and that, in any view, the sum claimed is excessive.

High Court Case.

SACCHARIN PATENTS.

In the Chancery Division on Monday, January 11, before Mr. Justice Neville, Mr. Colfax applied for the postponement of this patent action, the Saccharin Corporation v. White. Counsel explained that an order had been obtained before a Master in Chambers against defendant for further and better answer to interrogatories, and the matter had been adjourned to be heard before a judge on January 13. His Lordship granted a postponement.

Merchandise-marks Act.

AERATED-WATER BOTTLES.

At Tredegar on January 12, Joseph and Noah Cohen, mineral-water manufacturers, were summoned for selling mineral waters in bottles bearing a false trade-name. Messrs. Thomas & Evans, Porth and Tredegar, prosecuted. They alleged that defendants, at a variety entertainment at Tredegar, sold aerated waters in bottles embossed with the name of Thomas & Evans, and which they alleged had not been filled by them. Mr. F. P. Simons, who appeared for the defendants, alleged that the bottles had been placed in the cases of defendants with the object of trapping them. He further contended that the prosecutors had failed to prove that the defendants had filled the bottles. At the conclusion of the evidence the Bench held that a *prima facie* case had been made out, and as defendants elected to go before a jury they were committed for trial at the Quarter Sessions. Bail was accepted in one surety of £250 each.

WHAT IS BURGUNDY?

The case against Antony Camoccio, restaurant-keeper, reported in our last issue (p. 44), came up for decision at the Greenwich Police Court on January 8, when Mr. Gill, the Magistrate, found the charge proved, and fined the defendant 20s., and three guineas costs. In the course of his judgment Mr. Gill said it was admitted that Burgundy meant the product of a part of France. In this case the wine was produced in Australia, and it appeared that it was wrongly labelled in mistake by the wholesale dealer. Defendant had ordered Australian Burgundy, and Australian had been invoiced to him, so he should have had ample reason for suspicion, and ought not to have resold the wine without inquiry and without satisfying himself as to what it really was. Mr. Poley said he now wished to say on behalf of the Government of Victoria that it was argued last week that there could be no Burgundy that was not produced in France, but there was such a wine as Australian Burgundy, and he understood that no objection was taken to it by the French Government.

Shop-hours Act.

A PHARMACEUTICAL CHEMIST SUMMONED.

At Darlington Police Court on January 7, Mr. John E. Hodgson, pharmaceutical chemist, 14 High Row, Darlington, was summoned at the instance of the Corporation for keeping his premises open after 1 p.m. on Wednesday,

December 23, 1903, that being by order the local half-holiday.

Mr. H. E. Stevenson, for the prosecution, stated that the order made by the Corporation regulated the hours of opening and closing of chemists and druggists' shops and was in similar terms to other orders. He produced the order to show that the shop should have been closed at 1 p.m. on Wednesday, but he pointed out that it did not apply to the sale of medicines and medical or surgical appliances, which might be sold at any time. Evidence was then called, an inspector under the Act proving that he had called at Mr. Hodgson's shop on the day in question and told him that he was bound to close, otherwise proceedings would be taken against him. At half-past three the shop was still open and there were three customers in it. He repeated his previous warning, to which Mr. Hodgson replied that he could not very well close, as he had some customers coming for prescriptions. Witness, in reply to Mr. A. W. Smith, who appeared for the defendant, stated that he saw some soap and a photographic appliance sold in the afternoon. An assistant sanitary inspector proved the purchase of a tablet of oatmeal soap.

Mr. Hodgson, in his evidence, stated that he is a pharmaceutical chemist and he considered that the order did not apply to him, but to chemists and druggists. He carried on the business formerly belonging to Mr. Swenden, and did a great deal of dispensing and also an extensive business in medical and surgical appliances. He closed at 7 o'clock on ordinary days and earlier on Saturdays, and was closed from Thursday, December 24 to December 23, someone being on the premises in case of emergency. He considered that he need not close his door at all, as he could keep open for the sale of surgical and medical appliances. On the day in question, they had a good deal of optician's work to do, and arranged with the people to call in the afternoon, as they could not deal with them all at once. Replying to Mr. Stevenson, witness said a pharmaceutical chemist is a professional man, and is exempted from serving on juries and never required to attend the Assizes. Chemists and druggists have to do so. This by-law mentioned chemists and druggists, but not pharmaceutical chemists. When a man became a pharmaceutical chemist his name was deleted from the chemists' and druggists' list. [This is not the case.—EDITOR C. & D.] He would call soap a medicine. A skin specialist would prescribe medicinal soap. The witness added that he was compelled to keep open because of the customers coming in the afternoon. He had come to the conclusion that the order did not apply to him some time before these proceedings were taken. He could not say that he sold on the day in question any articles which would not come within the definition of medicine, or medical and surgical appliances. The shop was open freely.

Mr. A. W. Smith then addressed the Bench, an important observation made in the course of his speech being that the order made by the Corporation referred to "chemists and druggists" and not to pharmaceutical chemists, and therefore it did not affect his client. He pointed out to the Magistrates that the nature of the business required the shop to be kept open later in the day, as some customers called early and were asked to come in the afternoon, when their medicines would be ready. They did so and were attended to. Mr. Smith further pointed out that the Act states that "nothing in it or in any order should render a person liable in any penalty for serving any customer who was in the shop before the closing hour." He contended that this was intended to apply to such a case as this.

The Magistrates retired to consider the matter, and on returning the Mayor intimated that they had come to the conclusion that the Act applied to Mr. Hodgson's case. They extremely regretted that they were compelled to come to this decision, because they would have liked to dismiss the case. They thought it was one of great hardship, and they imposed no fine, but ordered Mr. Hodgson merely to pay the costs. They also suggested that the order should be amended as soon as possible.

Spirits Acts.

"HARBOURING SPIRITS."

At Old Street Police Court, London, on January 11, Jessel T. Brisk, in the employ of Messrs. Jones & Co., methylated-spirit makers, of Copperfield Road, Bow, was fined 15s. or a month's imprisonment for harbouring spirits liable to

duty. Mr. Shaw, who prosecuted on behalf of the Inland Revenue Commissioners, stated that it had come to the knowledge of the Excise that raw spirits were being sold about by some of the employes of the firm, and one man was discovered to whom the defendant had sold some. This was done without the knowledge of the firm. In defendant's lodgings a pint bottle half full and a quart bottle quite full of the spirits were found. The defendant denied that he had sold any, but offered no explanation of "harbouring."

Dentists Act.

"PAINLESS EXTRACTOR."

At Boston Police Court on January 5, Walter Harold Forman, Boston, was summoned, at the instance of the British Dental Association, for infringing Section 3 of the Act by advertising that he was the "only painless extractor in Lincolnshire." He was fined 20s. for one offence and 1l. 12s. 6d. costs, and 20s. and 1l. 11s. costs for another.

"ABSOLUTELY PAINLESS EXTRACTION."

THE case against Charles Goodman, 5 Victoria Crescent (reported in the *C. & D.*, January 9, p. 44), was resumed at the Portsmouth Police Court on January 11, before Colonel C. Lanyon Owen, Mr. Jas. Melrose, C.B., R.N., and Mr. C. E. Matthews. Defendant advertised that he extracted "aching and decayed teeth by the latest method, which is absolutely painless. Mr. Goodman has a reputation of over thirty years' standing," etc.; and the British Dental Association, who prosecuted, considered this a claim to being specially qualified to practise dentistry, therefore an infringement of Section 3. Mr. C. Foran, Secretary of the Portsmouth Branch of the British Dental Association, was one of the witnesses for the prosecution, and in the course of his evidence said that objection was also taken to the sentence in defendant's notice, "He may now be consulted upon all matters affecting the preservation of the teeth," which was dentists' work.

Mr. Bechervaise (for the defendant): If he does not hold himself to be specially qualified, can defendant be consulted without a breach of the law?

Witness: Yes, if he does not pretend to be a qualified dentist.

Defendant, in giving evidence on his own behalf, stated that he was articulated to Mr. J. Williams, a qualified dentist, at Manchester, in 1874, and that would have entitled him to be put on the Dentists' Register at any time up to 1891, but he was not in England about that time or he would have applied to go on the register. In cross-examination defendant said he considered himself qualified to act as a dentist.

At this stage, on the advice of his solicitor, defendant withdrew his plea of "Not guilty," and pleaded guilty to a technical offence.

The Bench imposed a fine of 10s. 6d. and 10s. 6d. costs on the condition that defendant gave an undertaking to exercise great caution in future.

"PAINLESS EXTRACTION."

At the Rhyl Police Court on January 12, before Mr. S. Perks and other magistrates, Richard Hanlon, King's Avenue, Rhyl, was summoned at the instance of David Hugh Jones, dental surgeon, Fern Villa, Rhyl, for infringement of Section 3 by using the following description:

"Artificial teeth fitted on gold, platinum, or vulcanite, best material and workmanship guaranteed. Crown bridge work and pivot teeth fitted where the roots are healthy, teeth extracted painlessly with the latest anaesthetics, nitrous oxide and oxygen gas, ethyl-chloride. R. Hanlon makes a speciality of children's teeth. Painless extraction a speciality. Any make of teeth repaired or remodelled."

Mr. Joseph Lloyd, who prosecuted, stated that the prosecution was taken by Mr. Jones for the General Medical Protection Society. He explained the objects of the Act, and referred to the decision in *Barnes v. Brown*, saying there was no hardship in that decision as it put the man who is not qualified on the same terms as regards advertising as the man who is registered. The registered man must not advertise, and he asked that the unregistered man should not be permitted to do so either. There was nothing to prevent an unregistered man advertising, but

the decision stopped him from advertising that he employed skill.

Mr. Ellis (a magistrate) asked if it meant that a man could not advertise in the newspapers.

Mr. Lloyd replied that it was possible to put an advertisement in a newspaper, but it would be a difficult matter to so word it as to escape the Act.

David H. Jones then gave evidence in support of the prosecution, and was cross-examined by Mr. W. Russell on behalf of the defendant. It transpired that witness's name does not appear on the current register, but he had been registered, and his name was put on on October 22, 1908, as soon as he had a permanent address. Other evidence of defendant's issuing circulars containing the description objected to was given.

For the defence Mr. Russell contended that there was no case to answer, as the prosecution had to prove that Mr. Hanlon did not possess a medical qualification entitling him to practise. If he held a medical diploma, then he could practise. It was not sufficient to prove that his name was not on the register.

Mr. Lloyd contended that the onus of proof on that point lay on the defendant, and the Magistrates' Clerk agreed.

Mr. Russell then argued that the case against the defendant was that he had appropriated to himself a distinction or title that would convey to the mind of the people that he was registered under the Dentists Act, 1878. If the defendant did such a thing then the penalty was laid down in the Act, which provided that no unregistered man could recover for his work. By the decision of October 14, 1908, it was laid down that an unregistered man must not apply any description which would convey to the outside world that he was on the register. It did not say that the defendant should not practice, only that he should not so advertise as to convey he was on the register. He asked the Bench to say on the facts that there had been no misrepresentation, and that there was no application by the defendant of any terms that he was on the register. There was nothing on his circulars which he undertook to do that he could not do. The offence, if proved at all, was a technical one.

The Bench retired to consider the case, and on their return said that they considered there was an infringement of the Act, and defendant would be fined 10s. and 1l. 12s. costs, but the other summons for a like offence should be withdrawn. Mr. Lloyd agreed to this.

Mr. A. George, 16 Water Street, Rhyl, and Thomas Thurgood, 70 Wellington Road, Rhyl, had also been summoned under the same Act, and their solicitors agreed to like penalties and costs.

Sale of Food and Drugs Acts.

CINNAMON.

At Durham on January 6, a summons against George Lamb, Brandon Colliery, for selling ground cassia as cinnamon was dismissed, the Bench being assured that it was all a mistake.

SWEET SPIRIT OF NITRE.

At Blofield (Norfolk) on January 11, Leonard J. Shearing, grocer, Freethorpe, was fined 2s. 6d., and costs, for selling sweet spirit of nitre which was not up to the B.P. standard.

CAMPFORATED OIL.

At the South-Western Police Court on January 14, Messrs. R. & G. Atkins & Co., herbalists, 118 Falcon Road, Battersea, were fined 20s. and costs for selling camphorated oil consisting of 86 per cent. of olive oil and 14 per cent. of camphorated oil, showing a deficiency of 34.5 per cent. The manager said the oil was left by the company's predecessors. The tin containing the oil was marked "B.P." and he thought that an indication of the genuineness of the article.

OLIVE OIL.

At the Camberwell Police Court last week, before Mr. Cecil Chapman, Messrs. E. & T. Pink, Staple Street, Borough, were summoned for giving a false warranty in writing to the effect that olive oil supplied was guaranteed pure, whereas in fact it contained 50 per cent. of cottonseed oil. Mr. F. W. Beck, who defended, suggested that by an accident in Messrs. Pink's oil-room some oil must have been pumped into the wrong tank. It transpired

during the hearing of the defence that practically everything was analysed by Messrs. Pink's chemist before the article was put upon the market. Mr. Chapman said he was satisfied that Messrs. Pink had good reason to think when they gave the warranty that they were sending out pure olive oil, and that therefore they came within the exception of Sub-section 6 of Section 20 of the 1899 Act. He therefore dismissed the summons.

QUININE-WINE.

At the Bow Street Police Court on Friday, January 8, Sir Albert De Rutzen gave his decision in the case against Cornelius Francis Sargeant, grocer, Rupert Street, for selling quinine-wine deficient in quinine. As reported in the *C. & D.* last week, p. 44, the article sold was St. Raphael's Quinquina, and for the defence Mr. F. W. Beck adduced that the purchaser was informed of the fact. Sir Albert De Rutzen now said that he had adjourned the case from the previous week because it was simply a question of fact that he had to decide, and he desired to be perfectly clear as to what took place in the defendant's shop. The emissary of the inspector went into the shop and asked for quinine-wine, and was told by the assistant that it was not stocked. If she had been well advised she would have gone out at once and told the inspector the answer—that there was no quinine-wine to be got. On the other hand, if those in the shop had been well advised, which they certainly were not, they would have told the woman to go to some other shop for what she desired. The lady was a little hazy as to what subsequently took place, but there appeared to be no doubt that two bottles were then taken from the shelf, and that the two young men in the shop submitted the price-list to her. After this she went away with the wine. "I must say," said Sir Albert, "that at this stage one of the two young men behaved very badly indeed. Either he persuaded this woman to take an article, a wine ordinaire, knowing it to contain one-tenth of a grain to the pint, or he did not know it. If he did know it, it was an absolute fraud on the woman to have passed it off as anything like quinine-wine. I daresay it is a small shop and an indifferent shop, but the action of the assistant has brought disgrace on it, and I have no hesitation in saying so. But there was sufficient done, no doubt, to make the woman a party to the action. If she accepted the wine for what it was, there's an end to the summons, so far as the summons is taken out under the Act. As I have said, if the young men knew that the wine they sold was not what was asked for, it was a most improper thing to do. The summons is dismissed."

DISTILLED WATER.

At Hampstead Police Court on January 13, before a full bench of Magistrates, Boots Cash Chemists, Ltd., were summoned under Section 6 of the 1875 Act, at the instance of the Hampstead Borough Council, for selling a food or drug, to wit, distilled water which contained 5 grains per gallon of dirt, and extraneous matter consisting of vegetable hairs and calcium carbonate. Mr. Turner appeared for the prosecution, and Mr. W. S. Glyn-Jones (instructed by Messrs. Neve, Beck & Kirby) defended. At the outset Mr. Glyn-Jones stated that the prosecution must decide whether the article in question was a food or drug, and proceed accordingly. After some conversation Mr. Turner elected to take it as a drug. He then outlined to the Court the basis of the proceedings. The distilled water had been purchased at the defendants' shop in Hampstead, and was duly divided according to the Act. The public analyst (Mr. A. W. Stokes, F.I.C., F.C.S.) on examining it found vegetable hairs in it and solid matter, including carbonate of lime to the extent of 5 grains per gal. It is important, Mr. Turner added, that distilled water, which is used in compounding important medicines, should be pure. Evidence was then called. An assistant inspector proved his purchase of half a pint of the water, for which he paid a penny. The inspector proved the division of the sample. It was elicited in the cross-examination of these witnesses that the bottles used were new, but had been washed and sterilised by boiling in tap-water. Also that the bottles were corked. Hampstead water is hard. Mr. Stokes was the next witness. He stated that the actual amount of calcium carbonate which he found was equivalent to about 3 grains of CaCO_3

per gal. He exhibited to the Magistrates a small phial containing the hairs and other particles in spirit, and another containing the particles of chalk. Witness was cross-examined at considerable length by Mr. Glyn-Jones, and, in reply to him, witness stated that water for analytical purposes is usually taken in large stoppered bottles, and rarely in small corked bottles, as in this case. He got 3 oz. of the sample and found this to justify the conclusion which he came to. He admitted that, if stated in percentage, the extraneous matter amounted only to 0.0078 per cent. He had come to the conclusion that the distilled water sold was what is known as condensed steam, and might contain tap-water. It was further elicited that the chalk shown to the Magistrates did not actually come from the water but was lime precipitated as oxalate and reconverted. The Medical Officer of Health for Hampstead and another medical witness gave evidence as to the use of distilled water in medicine. Mr. Glyn-Jones then outlined his defence. First he submitted that the prosecution must prove that the article is a drug, and as that point was left he submitted that it remained for the Court to decide which it is. If a drug, it was enough for him to show that it accorded with the British Pharmacopœia standard, and on this point he said that Mr. Stokes had not applied all the B.P. tests. In the third place admitting that it contained the impurities alleged, he submitted that these were introduced by the officers, who had not taken the precautions necessary for so pure a substance as distilled water. He would be able to prove that the water sold had been distilled at the defendants' factory in South London under proper scientific conditions, and sent out to the shops in specially prepared vessels. Mr. Otto Hehner was the first witness, and stated that he had found 2.3 grains of CaCO_3 per gallon, and suspended matter which on microscopic examination he found to be cork-cells. He was of opinion that the chalk came from the water used by the officers to sterilise the bottles. He was of opinion that apart from the lime that the water was a fair sample of distilled water. He protested, however, that the $2\frac{1}{2}$ oz. he received was too little. Mr. Glyn-Jones asked if he had analysed a sample of the bulk, but Mr. Turner objected, and, after argument, the court was cleared. On resuming, the Chairman intimated that they would hear no more evidence that day, but would send the reserve sample to Somerset House. When the report of the Government chemist was received they would also decide as to the admission of evidence regarding the bulk from which the purchase was taken.

Gazette.

Partnerships Dissolved.

- CHRISTY, G., RICHARDSON, B., and JAHN, E. A., wholesale druggists, Old Swan Lane, London, E.C., under the style of Thomas Christy and Co.; so far as regards A. E. Jahn.
- GROSSCUTH, J., GROSSCUTH, J. P., GROSSCUTH, R., and LUBOLDT, A., merchants, Mincing Lane, London, E.C., under the style of Grosscuth & Luboldt; so far as regards J. P. Grosscuth.
- PASCHEN, M., and ROHLEDER, P., export merchants, Cullum Street, London, E.C., and at Hamburg, under the style of Raspe & Paschen.
- ROOTS, W. H., and CROSS, F. G., physicians, etc., Kingston-on-Thames.
- RUTTER, G. H., and MACMILLAN, A. S., physicians, etc., Redditch, Worcs., under the style of Rutter & Macmillan.
- WHITE, E. A., THOMSON, R., and SAWERS, J. L., medical practitioners, Margate, under the style of Drs. White, Thomson, and Sawers.

The Bankruptcy Acts, 1883 and 1890.

ADJUDICATIONS.

- COLLINS, Joseph Henry, Brockley Road, Brockley, and London Road, Forest Hill, London, S.E., chemist.
- DANIEL, RONALD ANGUS DALRYMPLE, Oulton Broad, Suffolk, doctor of medicine.
- DODMAN, AUGUSTUS, Great Grimsby and Cleethorpes, maker of artificial teeth.

"THE CHEMIST-OPTICIAN" is a marvellous compendium of information on visual optics, writes "G. B. W." (16/51).

New Companies and Company News.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

DELIEZ, LTD. (P.C.).—Capital 100*l*. Objects: To carry on the business of perfumery, hair and skin specialists, vendors of toilet requisites, chemists, druggists, etc. The first subscribers are Mme. L. Gallerand (secretary) and Mrs. K. Lavin. R.O., 35 Old Bond Street, W.

VETA SOAP CO., LTD. (P.C.).—Capital 6,000*l*. Objects: To adopt an agreement with C. J. Davies and to carry on the business of manufacturers and importers of and dealers in soap, etc. The first directors are E. Baring (chairman), A. J. Blake, and C. J. Davies (managing director). R.O., 38 John Bright Street, Birmingham.

PER-SE, LTD. (P.C.).—Capital 1,500*l*. Objects: To take over the business carried on by G. C. Clark, F. Matthewman, and A. C. Jackson at 119 Tarring Road, Worthing, as the "Per-se Manufacturing Co.," and to manufacture and deal in "Per-se" skin foods, eczema ointment, and toilet requisites, etc. The first directors are the above-named. R.O. as above.

ORIGINAL ANTISEPTIC PASTILLE, LTD. (P.C.).—Capital 2,000*l*. Objects: To carry on the business of chemists, druggists, confectioners, patent-medicine vendors, dealers in proprietary articles, manufacturers of pastilles, lozenges, etc. The subscribers are W. A. Jones, 18A Renshaw Street, Liverpool, wholesale druggist; Mrs. A. Jones, 56 Laurel Road, Liverpool; and F. B. Dobson, 31 Rosthwaite Road, West Derby, master mariner.

JOHN BELL, HILLS & LUCAS, LTD. (P.C.).—Capital 15,000*l*. Objects: To acquire the wholesale and manufacturing branch of the business of John Bell & Co., 225 Oxford Street, W., and to carry on the business of druggists, chemists, dry-salters, oil and colour men, etc. The first subscribers are Walter Hills and E. W. Lucas, who, with J. Stuart Hills, are the first directors, Mr. Walter Hills being chairman, while Mr. Lucas and Mr. J. S. Hills are managing directors. The qualification is fifty shares of 1*l*. each.

HENRY LAMPLUGH, LTD.—The directors have declared an interim dividend of 2½ per cent. per annum (1*s*. 3*d*. per fully paid share and 10½*d*. per share, with 3*d*. 10*s*. paid).

BARTTSU LIGHT CURE INSTITUTE, LTD.—In the High Court of Justice, Chancery Division, before Mr. Justice Swinfen-Eady, the petition for winding-up presented by a judgment creditor was opposed by the company on the ground that petitioner had no interest in the judgment debt, he having assigned it. It was also objected that the company had no realisable assets. Mr. Justice Swinfen-Eady, after answering both objections, made an order for compulsory winding-up.

SACCHARIN CORPORATION, LTD.—With reference to the official notification of the liquidation of this company and the meeting of creditors which has been called, we are informed that the liquidation is solely for the purpose of reconstruction and reduction of capital, and the meeting of creditors is called under the provisions of the Companies Act, 1907—a formal matter. A new company is being formed immediately under the same name, which will take over the assets and discharge all the liabilities of the old company.

MORTGAGES AND CHARGES.—The following have been registered: *A. J. Caley & Son, Ltd.*, mineral-water manufacturers, Norwich. Issue of 30,000*l*. part of 40,000*l*. 5 per cent. "B" debenture stock.—*Cannan's Soap Works, Ltd.* Issue of 2,000*l*. part of 4,000*l*. debentures.—*Liverpool Borax Co., Ltd.* Two debentures, to secure 2,000*l*. and 3,000*l*.—*Foods, Ltd.*, Stockport. Issue of 500*l*. part of 1,000*l*. 5 per cent. debentures.—*Sarril, Ltd.*, soap manufacturers, Chester. Debenture to secure 235*l*.—*Vacuum Capco, Ltd.*, London. Issue of 300*l*. part of 1,000*l*. debentures.—*Wilson & Holmes, Ltd.*, mineral-water manufacturers, Workington. Issue of 650*l*. debentures.—*Nettleton, Woolley & Co., Ltd.*, mineral-water manufacturers, Southport. A statement of the total amount outstanding on July 1, 1908, in respect of mortgages and charges has been filed, viz. 700*l*.

Marriage.

MACINTYRE—BRYDEN.—At 5 Gloucester Place, Edinburgh, on January 8, by the Rev. A. Wallace Williamson, D.D., St. Cuthbert's, and the Rev. Homer Young, Gourcock, Archibald Chalmers Macintyre, chemist, Greenock, to Isabella, second daughter of the late Adam Bryden, farmer, Ratchill, Broughton.

Deaths.

FAIRWEATHER.—At Plymouth, on January 6, Mr. George Fairweather, chemist and druggist, dispenser at the Plymouth Public Dispensary, aged thirty-four. The interment took place at Plymouth Corporation Cemetery, Egg Buckland, on January 9. A wreath was sent by the members of the Plymouth, Devonport, and Stonehouse Chemists' Association, which was also represented by Messrs. H. D. Davey (President), C. J. Park, E. Turney, and F. A. Spear.

HARDING.—At Leytonstone, on December 29, 1908, Mr. Robert Harding, chemist and druggist, aged seventy-four.

HEALD.—At Sleaford Workhouse, on January 11, Mr. Benjamin Heald, pharmaceutical chemist, aged seventy-eight. Mr. Heald at one time had a lucrative business in Sleaford, and held various public offices.

HEPWORTH.—At 5 The Avenue, Durham, on January 2, Mrs. Hannah Hepworth, widow of Mr. Wm. Hepworth, pharmaceutical chemist, Manchester, and daughter of the late Mr. Thompson, chemist and druggist, Market Place, Durham, aged eighty-six.

HARLAND.—At a private nursing home in London on January 9, William Henry Harland, M.R.C.S., L.R.C.P., of Sandy Knap, East Cowes, I.W., aged thirty-six. Dr. Harland was the son of the late Mr. R. T. Harland, chemist and druggist, who so long represented Messrs. S. Maw, Son & Sons in Scotland. He received his medical education at the Middlesex Hospital School, where he had gained an entrance scholarship, and qualified in 1900. He went to the front during the Boer war as a civil surgeon, being attached to the 17th Lancers, and on returning held several hospital appointments before settling down at East Cowes. There he had made an excellent practice, and was Captain in the R.A.M.C. Territorials (Princess Beatrice's Hants Regiment). He had been ailing for some time, but was sufficiently well when his father died two months ago to attend to his affairs, but there was a recurrence of the malignancy. He leaves a widow, but no children.

MASTERS.—At 8 Hanley Road, Hornsey Rise, London, N., on January 12, Mr. Thomas Masters, aged seventy-four.

Mr. Masters was well known in the drug-trade from the fact that up to the time of his retirement he had been with Messrs. S. Maw, Son & Sons, Aldersgate Street, E.C., for fifty-five years. The jubilee of his service was celebrated at a smoking-concert on July 1, 1901, when Mr. Masters was presented with a cheque by the firm and a gold watch and chain by his colleagues. He retired on a pension in 1906, having for some years previously been chief of the counting-house.



MACDONALD.—At Dunkeld House, Dunkeld, Perthshire, on January 6, Baillie Kenneth Macdonald, chemist and druggist, aged sixty-six. Mr. Macdonald, who was the Baron Baillie of Dunkeld, died with tragic suddenness. He had gone to Dunkeld House for the purpose of having a conversation with the Marquis of Tullibardine, and, this over, he was preparing to leave the house, when he was seen to fall. Dr. Taylor was sent for, and arrived in two or three minutes, only to find the Baillie dead. There was no better-known man in Dunkeld than Baillie Macdonald. He went to that town some forty-four years ago from Inverness-shire, and his double-fronted shop in the High Street has all that time been a notable meeting-place for two generations of distinguished visitors to the old town, and the centre of local interest not only in regard to the dispensing of medicines, but in respect to local affairs. For nearly thirty years Mr. Macdonald was postmaster in Dunkeld. For forty years he had been a member of the

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, JANUARY 16, 1909.

PUBLISHER'S NOTICE TO ADVERTISERS.

Advertisers are desired to take note that the advertisements of Businesses for Disposal and Wanted, Situations Open and Required, Exchange Column, &c., belong to the **PREPAID CLASS**, and to ensure the due insertion of the announcements the remittances must accompany the instructions. A great amount of unnecessary correspondence is occasioned by the non-observance of this regulation, and the Publisher hopes that the advertisers will assist in the quick preparation and despatch of the Supplement by strictly observing this rule. Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week.

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."

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2.—ROMFORD (Near).—Retail and Prescribing Business, chiefly ready money; returns average about £500 per annum, which produce a net profit of £150; comfortable residence; held on lease; price £250.

3.—LONDON, E.—By order of the Trustee.—Well-established Business, situate in a busy main thoroughfare; returns about £13 weekly, formerly about £1100 per annum; immediate sale desired; price £275; part may remain.

4.—HYDE PARK (Near).—Retail and Dispensing Business, with fair sale of Photographic goods; returns £1,426 from January 1 to November 28, 1908; net profit £400; large double-fronted shop, fully stocked; commodious house; price £850.

5.—CRYSTAL PALACE (Near).—Well-established Business; Retail, Dispensing, and Photographic; returns between £700 and £750 yearly; gross profit £293; double-fronted shop; nice residence; good garden; price £600.

6.—LONDON, S.E.—Good-class Dispensing and Retail Business; returns about £1,100; net profit £398; large shop, fitted in mahogany; house has 8 rooms; side entrance; rent £75, held on lease; price £875.

7.—LONDON (West-end).—Old-established Business, Retail and Dispensing; returns average between £1,400 and £1,500 yearly; net profit £500 (about); price £1,150.

8.—NORTH WALES.—Illness cause of sale.—Good-class Business, Retail, Dispensing, and Agricultural; returns between £600 and

£700 yearly; gross profit about £300; well-fitted shop, capitally situated; commodious residence; private entrance; new lease; inspection invited; offer considered.

9.—HOME COUNTY (Health Resort).—Middle-class Retail and Prescribing Business; held by vendor 10 years; returns last year £675; net profit £192; attractive, well-fitted shop, situate in residential locality; rent £60 yearly; price £500.

10.—NORTH OF ENGLAND.—Ready-money Business, Retail, Dispensing, and Prescribing; returns average £800 per annum; net profit 25 per cent.; handsomely fitted shop; corner position, main street; well-appointed residence; held on lease; price £400; illness cause of sale.

11.—WARWICKSHIRE (good-class Town).—Retail, Dispensing, Photographic, and Optical; all good-class business; returns between £550 and £600 yearly; net profit £150; well-appointed shop, double fronted; roomy house, bathroom, etc.; price £450.

12.—SOUTH MIDLANDS.—Light Retail Business, with excellent Optical connection; established many years; returns (last year) £1,200; net profit £350; large sale for own proprietaries; position unique; rent £45 yearly; long lease; commodious residence; price £800.

13.—BERKS.—Retail, Dispensing, and Photographic trade; returns £968; profit (net) £230; double-fronted shop; main road; good house; long garden; price £650.

14.—GREAT WESTERN MAIN LINE.—Middle-class Business; returns about £2,400 yearly; gross profit 50 per cent. (proof given); well-fitted shop, capitally situated in the centre of town; rent £65, which includes a good residence; price £2,000.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

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Messrs. O. & Co., desire to emphasise the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

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YORKS.—Splendid high-class Dispensing Business, with nice Photo and Optical connection; one of the best businesses in the district; old-fashioned, fine premises, which can be had on lease at moderate rent; returns £2,600; price, valuation only, about £1,200; grand opportunity.

MIDLANDS.—Good-class Light Retail, with Photo trade and nice Optical connection; splendid position in main street of busy town; returns £1,400; valuation of stock and fixtures.

GLOUCESTERSHIRE.—Unopposed Light Retail, Photographic, and Dispensing; good shop and house; large garden; very old established; returns £530; net profit £200; price £425.

KENT.—Good-class Retail, Dispensing, and Photographic, in centre of main business street; large, lofty, and beautifully fitted shop, in latest style; returns £800, and increasing; price £750, or offer.

WARWICKSHIRE.—Very nice Dispensing and Light Retail Business, with Photographic; good shop; in nice position of inland health resort; convenient house; returns £600; owing to sudden illness of vendor, will accept £450, or near offer; splendid opportunity.

YORKS.—Mixed General Retail, in pretty country district; nice corner shop, and very old established; good house; returns nearly £400; price £400.

YORKS.—Middle-class Retail and Dispensing and good Proprietaries; small Wholesale; large yard and garden, and excellent premises; very old-established; returns £800 (or thereabouts); price £350, or offer; this is a bargain.

BERKSHIRE.—Good-class Dispensing and Light Retail; very good Photographic connection; good house and shop; old established; returns £900; price £650; great scope for increase; references required.

Write us at once for our special terms for STOCKTAKING for 1909. We are now booking dates. Correspondence cordially invited.

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SURREY.—Entirely unopposed Country Business; returns £800; full prices; absolute net profit £300; good house; large garden; rent £50; small goodwill and valuation.

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SCOTLAND.—Good Mixed Business in mining town, near Glasgow; returns £900; good house and shop; rent £47; price, value of stock and fixtures.

KENT.—Good-class Family Retail; unopposed; good prices; rent £60, part let off to dentist weekly; well-fitted shop and good house; returns last 3 years, £500, £620, £700; price £100 and valuation.

NEAR LONDON, W.—Established two years; returns £750; rent £95; half let off; net profit £250; price £250.

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2.—**YORKSHIRE.**—High-class City Business, in excellent position; returns about £1,250; net profit £345; handsome Pharmacy, fully stocked; price £1,000; strongly recommended.

3.—**BERTFORDSHIRE** (Busy Market Town).—Good-class Light Retail Business, in very best position; returns average £875; neglected; could easily be made do £1,200; good house and shop; price, valuation, plus small goodwill.

4.—**HAMPSHIRE.**—Light Family Retail Business, in small town, charming locality; returns over £900; excellent profits; low rent; attractive shop, well fitted and stocked; price £775; personally inspected and strongly recommended.

5.—**NORTH WALES** (Market Town).—Light Retail and Dispensing, with Photographic; central position; returns over £1,000; net profit £250; low rent; handsomely fitted shop, fully stocked; price £600, or near offer.

6.—**WILTSHIRE.**—Good-class Family Retail Business; easily worked; returns £460; good profits; scope for increase; no opposition; well-fitted shop, fully stocked; good house and garden; price £350.

7.—**HOME COUNTY.**—Good-class unopposed Light Country Retail, in small market town; returns £800; net profit over £300; large house and garden; price £675; strongly recommended.

8.—**CRYSTAL PALACE** (Near).—Good-class Retail and Dispensing, with very few Patents; returns £820; good profits; well-fitted shop; excellent position; fully stocked; price £600.

9.—**ESSEX** (Suburb).—Light Cash Retail and Prescribing, with Dentistry; returns £14 a week (patents £2); can easily do £20; well-fitted shop; good position; price £450, or Partner entertained.

10.—**DEVON.**—For immediate Disposal, old-established Business in one of the finest positions in large town; present returns £15 weekly; neglected through ill-health and age; plenty of scope; several valuable specialities; price, valuation, for early sale.

11.—**CHESHIRE.**—Light Retail, Dispensing, and Prescribing Business, in splendid position, good residential district; returns £800; net profit £200; good house, etc.; illness sole cause of sale; price only £400.

12.—**SOUTH COAST.**—Good-class Retail and Dispensing Business; returns £725; scope for much increase; well-fitted pharmacy and well stocked; good position; price £600, or near offer.

13.—**LANCS.**—Light Retail, Dispensing, Prescribing, and Optics; returns £700; no patents sold; net profit £250; handsome shop, well stocked; offer wanted; part can remain.

14.—**YORKSHIRE** (Inland Health Resort).—High-class Retail and Dispensing Business; charmingly situated; returns about £550, increasing; modern Pharmacy, well fitted and stocked; price £375.

15.—**SOUTH-EAST COAST.**—Light Family Retail and Dispensing, with Photographic trade; returns £900; net profit £230 clear; central position; comfortable house; price £500.

16.—**HERTS.**—Unopposed Village Business; neglected through old age and ill-health; returns over £5 a week; rent £10; population over 3,000; price only £120; stock alone worth price asked.

17.—**LONDON, S.W.**—Good-class Retail and Dispensing Business; returns over £1,300; net profit £434; splendid position; shop is well fitted and stocked; price £1,100.

18.—**LONDON, W.**—Light Retail and Dispensing Business; returns £1,500; net profit £400; handsomely fitted shop, well stocked; large premises; low rental; price £800, or offer.

STOCKTAKING.

Every modern Chemist knows that Stocktaking is a necessity, but is he aware of its immense value and importance in connection with **FIRE INSURANCE** and preparing a **BALANCE-SHEET**? If not, he should at once turn up page 115 in the "C. & D. Diary, 1909," and carefully read our advertisement on this subject, and then write for our special terms for doing this work.

J. G. BERDOE established the firm in 1870, and W. S. FISH was apprenticed to him in 1877.

TOMTOM

Telegraphic Address.

THOS. TOMLINSON & SON.
Chemists' Valuers and Expert Stocktakers,
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Businesses Wanted and for Sale.
Employers' and Assistants' Engagements Undertaken.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond, prepaid.

NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an Additional charge of 6d.

COLONIAL BUSINESSES.

We call the special attention of our Colonial subscribers to the opportunity this Supplement affords when they wish to dispose of their Businesses, of getting into touch with likely buyers either at home or in the Colonies.

Replies to Advertisements may be addressed to this Office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded.

CHEESHIRE.—Country Business in ideal situation; small but profitable returns; high-class connection; unusual opportunity for one wishing to take life easily. Address, "Senex," c/o Southall Bros. & Barclay, Ltd., Birmingham.

EAST KENT.—Genuine ready-money Light Retail and Prescribing Business; good thoroughfare; scope for increase; no sidelines; expenses small; rent £25; returns between £320 and £350; price £200; only personal interviews entertained. For appointment write, "Genuine" (113/19), Office of this Paper.

HOME COUNTY (Fashionable Inland Health Resort).—Sound, well-established Light Retail Business, returning last year £743, all ready money; main road position; comfortable house; moderate rental; shop is well fitted and exceptionally well stocked; price £550; not a personal business, and will bear the strictest investigation. Address, "Bona Fide" (131/02), Office of this Paper.

KENT.—Light Retail Business in small market town; no opposition; profits exceptionally large; good 9-roomed house and garden; scope for considerable increase; price £650 or near offer. 129/1, Office of this Paper.

LIVERPOOL (thickly populated middle-class Suburb).—Corner shop, double fronted; good position; large house; returns £400 to £500; scope for increase; price, valuation or reasonable offer. "Drugs" (120/32), Office of this Paper.

LONDON, W.—Owing to death.—High-class Retail and Dispensing Business; well-fitted shop, fully stocked; good house, upper part and small attached shop well let; further details on application. Address, Ninnis, 37 Crawford Street, Marylebone, W.

LONDON.—Through entirely unforeseen circumstances, a Business, with good connection and making splendid profits, must be sold; this affords an opportunity rarely met with to a smart man anxious to go into business with small capital (£300). For full particulars apply, "H. H. J.," 2 Elsinore Road, Forest Hill, S.E.

LONDON, W.—Ideal Pharmacy in rapidly-growing neighbourhood of West London suburb; established six years; Prescribing, Photographic, and good Optical connection; large modern house with garden; rent £45; lease 15 years; gross profit £225; price at valuation; inquirers must command at least £200. Write or call, Barnett, Chemist, Hounslow.

LONDON Suburb, S.W.—Double-fronted modern pharmacy; sitting-room; private entrance; good house; excellent repair; long lease; electric light and gas; rent £65. Particulars, "Brown" (131/24), Office of this Paper.

MANCHESTER (Near).—Sound Cash Retail, with Wines and Spirits, in busy manufacturing town; returns £630; rent £30; splendid chance to acquire genuine concern at very low figure. Write, "Statin" (128/5), Office of this Paper.

MIDLANDS.—In busy market town; good-class Business, in very best position; returns £1,260; net profit £380, after paying every expense; low rent; valuable lease; very good house; shop is well fitted and well stocked; family reasons for selling; price £800, or valuation terms arranged if preferred. Apply, "Reliable" (131/20), Office of this Paper.

NEAR London; Light Retail; a genuine Business; open to any investigation; showing net profit £200 per annum; lease; low rent and expenses; comfortable house; double-fronted shop, well-fitted, with up-to-date stock; excellent reasons for sale; price £300 or terms could be arranged. Apply, 127/2, Office of this Paper.

NORTH MIDDLESEX.—Genuine established growing Business; returns, 1906 £1,503, 1907 £1,581, 1908 £1,682; large profits; handsomely fitted shop, 30 by 20, in best mahogany and plate glass; thoroughly modern; heavily stocked; good 10-roomed house in thorough repair; rent £95; let off £40 to good tenants; the shop is situated in best part of busy market and main road; price £1,250 or near offer. Further particulars, 122/32, Office of this Paper.

S.E. DISTRICT.—An old-established (over 40 years) Retail, Dispensing, and Prescribing Business; main road position, in very busy centre; returns £520; splendid opening for Dental or Photographic business; price £300, or near offer to immediate purchaser. Apply, Puttick & Wellington, 270 Lavender Hill, Clapham Junction.

SHEFFIELD (in centre of the City, near Post-office and Market).—Established for close on 100 years; low rental; large premises; at present under management. Apply, W. Smith & Sons, 16 Campo Lane, Sheffield.

SOUTH WALES (in a growing district).—For Disposal, a genuine Business, returning about £600; capable of immediate increase with a little capital; well stocked; mahogany fittings; rent £26; splendid opportunity for an energetic man; good opening for Dentistry; satisfactory reasons for disposing. 124/36, Office of this Paper.

YORKSHIRE.—Splendid paying Business for Disposal owing to ill-health; situated in main thoroughfare of large town; capable of great increase; returns nearly £1,250; net profit £350; no reasonable offer refused. Apply, 126/36, Office of this Paper.

CHEMIST-OPTICIAN Business in absolute centre of large Lancashire town; the pharmacy is a very imposing one, beautifully fitted in solid mahogany and plate glass; well-equipped testing-room; sight-testing department; established 10 years; rent £50. "Optics" (128/33), Office of this Paper.

COUNTRY Business with Mineral-water plant for Disposal in the most charming district of Wharfedale, Yorkshire; in same haunts 25 years; capital house, with large garden, warehouses, etc.; price £450. Further particulars from Fredk. Wm. Smith, Chemists' Valuer, 3 Belgrave Terrace, Leeds.

DENTAL Depôt for Sale; London, West-end; premises elegantly and substantially fitted as a Dental Depôt, comprising show-room and office on ground floor, packing and store-room in basement; electric light and every convenience for the business; moderate inclusive rent; show-room 23 ft. by 21 ft., with excellent light; fittings all mahogany, specially designed for the Dental trade; stock (small) optional; introduction given; only small amount of cash required. "Depôt" (126/17), Office of this Paper.

FOR immediate Disposal, owing to death of proprietor, old-established main-road Business; neglected, but capable of big increase; good house and garden; rent partly covered; the same may be acquired by payment of £50 down and remainder easy payments to the amount of £150 all told; this to effect a quick sale is a remarkable offer. Full particulars upon replying to 130/34, Office of this Paper.

IN consequence of vendor's ill-health, old-established and small profitable Business in London suburb is offered for Sale; long lease; easy terms; good shop and house, situated in main road; vendor is anxious to retire and will take value of stock and fixtures; trade references. "Phenacetin" (127/17), Office of this Paper.

MUST Sell.—Old-established; London, N.; returns £900 under manager; capable of big increase; no opposition; low rent; lease; good house and garden; only wants seeing; very low price for prompt sale. Particulars of "Tussi" (130/29), Office of this Paper.

BUSINESSES FOR DISPOSAL

(continued.)

SMALL Branch Business for Sale, cheap, in Rotherham, with house attached; easy rent; capable of extensive increase; very good fixtures and fittings and excellent window. For full particulars apply, S. P. Billington, 79 Midland Road, Masbro'.

TO Buyers.—Genuine Business; South Coast; Photography, Prescribing, Dispensing, Light Retail; nice house; fine situation; long lease; returns nearly £500; excellent stock. Barton, Business Transfer Agent, Folkestone.

£75 (not the value of Fixtures and Stock).—An old-established Chemist's Business; no opposition near; comfortable small house and shop; near King's Cross; must sell through sickness. To treat, apply, J. R. Howarth, Auctioneer, 21 Penton Place, London, W.C.

£170; genuine bargain; Kent; Cash Business for Immediate Disposal; nicely-fitted, double-fronted shop, with convenient house and garden; lease; no near opposition; established 12 years; good reasons for selling. 130/14, Office of this Paper.

£180; London, N.; returns £400 to £450, increasing; good prices; Photography, Extractions could be added to great advantage; rent £50. "J. N." (131/3), Office of this Paper.

£200 all at.—Branch in busy London E. thoroughfare, at present doing just over £8 weekly; good profitable penny trade; over half gross profit; could be soon increased under qualified or unqualified proprietor's personal supervision; valuable lease (worth £100); low rent; cause of sale, new Pharmacy Bill; nicely fitted; well-selected stock. W. J. Potter, 124 Kingsley Road, Maidstone.

£250; good Business in Manchester district; Light Retail, Prescribing, and Photographic; excellent corner premises; no opposition; ample scope for increase; returns over £375 at good prices; few patents; this is a splendid chance for a smart man; good opening for Sidelines. Apply, "X.Y.Z." (127/38), Office of this Paper.

BUSINESSES WANTED.

A DVERTISER wants Business showing a profit of about £300 net; Agricultural country business preferred, but not essential; must bear strictest investigations, and only those allowing a short trial will be entertained. Replies in confidence to 124/27, Office of this Paper.

MESRS. BERDOE & FISH, having been successful in recently disposing of a large number of Businesses, are in immediate want of sound concerns in London and all parts of the country for cash buyers from £300 to £3,000; strictest confidence guaranteed; correspondence cordially invited from intending vendors. Address, 35 Jewry Street, Fenchurch Street, London, E.C.

WANTED to purchase, a Business in or near London; lock-up shop preferred. Full particulars to "C. B." (122/22), Office of this Paper.

WANTED, small Country or Village Cash Drug Business, genuine, about £30 to £60 or so; unopposed preferred, and West of England if possible. Apply, "Rhei," c/o Head Office G.P.O., Weston-super-Mare.

WANTED, to purchase a small genuine Business; please give ordinary particulars in first letter (in confidence); no Dental business considered. "F." (131/9), Office of this Paper.

PARTNERSHIPS.

OLD-established Export Druggists and Manufacturing Chemists are open to receive proposals from gentleman (about 35) with high qualifications as Chemist and first-class practical experience in the management of such a Laboratory, together with some general knowledge of commercial work, with a view ultimately to the introduction of capital and to his acquiring directorship; applications from principals only, having experience indicated, will be entertained; exceptional opportunity, due to early retirement of one of present Directors. Address, "Principal" (173/405), Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond, prepaid.

RESULTS
OF ADVERTISING IN THIS SUPPLEMENT
LAST WEEK Jan 9 1909

NATURE OF ADVT	REPLIES
ASSISTANT	36
" (married)	23
" (junior)	21
BRANCH MANAGER	21
BUSINESS WANTED	18
YOUTH (warehouse)	13

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of advertisers who use a number or nom de plume.

RETAIL.

BARNET.—Qualified Assistant wanted, early in February, for a good-class Dispensing and Retail business; aged 25 to 30; must have had good experience and be well recommended; knowledge of Photography desirable. Apply, giving full particulars, photo, salary required (indoors), to J. T. Sambrook, Pharmaceutical Chemist, Barnet, N.

BLACKHEATH, S.E.—Wanted, about February 10th, Assistant (about 25), tall, gentlemanly, well trained, for Counter, Dispensing, and Stock. Photo and particulars, Bailey, Chemist, Blackheath.

CHELTENHAM.—Manager; qualified; to live on premises; house and gas free; single-handed; easy hours. Please give full particulars in first letter to H. Miller, 389 High Street, Cheltenham.

CHINA.—A qualified Assistant for high-class Chemist's and Druggist's business; aged 22 to 28; must have had good experience in first-class house; liberal salary offered, and passage paid out and home. Address, "China" (124/28), Office of this Paper.

CHINA.—Junior qualified Assistant, about 24; three years' agreement; short hours; liberal terms; passage paid out and home. Apply, Dakin Brothers, 82 Middlesex Street.

DEMERARA.—Assistant wanted; 3 years' agreement; salary commencing £70 per annum, rising to £90 per annum, with board, lodging, and medical attendance; passage paid out. Apply, The British Drug Houses, Ltd., Davy Hill & Hodgkinsons, Ltd., branch, at 64 Park Street, Southwark, S.E.

GERMAN HOSPITAL, Dalston.—Wanted, by 1st of February, or earlier, qualified Second Male Dispenser; salary £40 per annum with board, and an allowance of £30 per annum for lodging. Applications and testimonials to be sent to the undersigned at once. The appointment will be an annual one, which may be renewed. W. F. COCHRANE, Secretary.

GLOUCESTER.—A reliable Assistant wanted, must be a good Dispenser, for Light Retail and Dispensing business. Full particulars as to age, experience, and salary required, send photo (to be returned), to Hampton, Chemist, 86 Northgate Street, Gloucester.

HANLEY.—Qualified Manager; a good, sound, reliable man, not afraid of work; good Prescriber, Window-dresser, Extractor; honesty, sobriety, and ability as a Salesman essential; permanency for the right man, for a good-class Mixed business. Furnival & Co., Ltd., Hanley, Staffordshire.

INDIA, N.W.—Assistant, qualified, with good Wholesale experience, to sail February 12; salary first year £160, second £180, third £200; 3 years' agreement; passage paid out and home; Scotchman preferred. Apply, with copies of testimonials and photo, to "R. L.," c/o S. Maw, Son & Sons, 7 to 12 Aldersgate Street, London.

JAPAN.—Junior qualified Assistant (about 24) in old-established English Chemist's; good climate; short hours; passage paid out and home. Apply, 152/34, Office of this Paper.

LONDON, W.—Branch Assistant; unmarried; qualified; indoors; singlehanded; age over 24; must be of gentlemanly appearance and address; a reliable Dispenser with knowledge of Photography and Light Retail; abstainer preferred. Apply to R. L. Whigham, 22 Brook Street, Bond Street, W.

LINCOLN.—Wanted, unqualified Assistant; indoors; must be pushing man. Particulars to Wark, Ph.C., 370 High Street, Lincoln.

LITTLEHAMPTON.—Gentlemanly Junior Assistant, qualified, outdoors, good Counterman and Window-dresser, with practical knowledge of Photography preferred; easy hours; no Sunday duty; good references essential. Apply, giving fullest particulars as to age, height, salary required, etc., Haward, 15 High Street, Littlehampton, Sussex.

LIVERPOOL.—Bain & Co. require a Junior Assistant, about 22 years of age, on February 8; three kept. State age, height, salary (outdoors), references (photo if convenient), to John Bain, 4 Quadrant, Lime Street, Liverpool.

LONDON, W.—An Assistant required for Sales and Dispensing Counters of high-class modern business; qualification and wide experience essential. Apply, 126/28, Office of this Paper.

LONDON, N.W.—T. H. Bateman & Co., 223 Finchley Road, N.W., have a vacancy for a reliable Assistant; the best experience in high-class Pharmacy essential; aged about 30; indoors. Reply, by letter in first instance, giving fullest particulars, and enclose photograph.

LONDON, W.—Qualified Assistant wanted; indoors; first-class Dispensing business in West-end, London; duties divided between three. State age, height, experience, salary required, and enclose photo, to "Taraxacum," c/o Horner & Sons, 24 George Street, Tower Hill, E.C.

LONDON, S.W.—Improver wanted at once for good-class Dispensing and Retail business. Apply, stating age, experience, and salary required, to Feltwell & Son, Chemists, Barnes, Surrey.

LONDON, N.W.—Part-time Assistant; comfortable home, board, lodging, and moderate salary offered to gentlemanly man, about 24; one accustomed to brisk Retail preferred. W. C. Tucker, Chemist, Queen's Crescent, N.W.

MANCHESTER.—Wanted, fully-qualified Assistant; large central Store; short hours. State age, experience, salary, with copies testimonials and photo, if possible, to 173/8, Office of this Paper.

SOUTH COAST.—Doctor requires a male qualified Dispenser and Bookkeeper; outdoors; state full particulars and qualifications, whether single or married, and salary wanted. Apply, 124/13, Office of this Paper.

STOCKPORT.—Wanted, first week in February, thoroughly experienced Assistant; one accustomed to brisk cash trade, Dispensing and Manufacturing. Apply, enclosing photo (to be returned), to R. T. Forbes, Edgeley, Stockport.

WESTON-SUPER-MARE.—Wanted, early in February, a capable Assistant; indoors; well up in Dispensing and accustomed to quick Light Counter trade. Apply, with photo if possible, and all necessary particulars, to Joseph Hicks, Chemist, Weston-super-Mare.

YORKSHIRE.—Wanted, capable unqualified Assistant for General, Retail, Agricultural, and Country Wholesale; preference given to one accustomed to Travelling; hours 8 to 7.30, half-holiday weekly; give full particulars, age, height, salary (outdoors), experience, references, etc., in first letter. T. B. Illingworth, Chemist, Skipton.

ASSISTANT wanted for Light Retail, with view to succession. Lee, Chemist, Doncaster Road, Mexboro', Yorkshire.

BRANCH Manager, qualified and experienced, wanted at once; no one need apply whose references will not bear the strictest investigations, to 175/15, Office of this Paper.

CAPABLE Warehouse Assistant required to attend to and put up stock, and make himself generally useful; must have a general knowledge of the business. Apply, "Chemist," c/o Messrs. Heaton, Squire & Francis, Ltd., 38 Southwark Street, London, S.E.

ERNEST MATTHEWS, LTD., Chemists, Royston, Herts, require a registered Chemist soon; outdoors; hours 9 A.M. till 8.30 (except Saturday 10.30, Thursday 2); no Sunday or holiday duty; Agricultural experience desirable. Please state salary required and references in first letter, with photo if possible.

JUNIOR wanted for good-class Counter trade; must be good Salesman, Window-dresser, and Stockkeeper; easy hours; no Sunday duty. State age, height, experience, salary, and enclose photo, Young, Chemist, Nantwich.

QUALIFIED Branch Manager for Colliery district; Welsh speaking; abstainer; one seeking permanency; must be thoroughly reliable. Photo and particulars to D. George, Pentre, Glam.

REEVE, New Street, Birmingham, requires, at once, a good Junior; one accustomed to first-class Retail and Dispensing; must have good address and be a smart Salesman. Applicants please give fullest particulars as to height, etc., and enclose photo.

WANTED, qualified Branch Manager; married preferred; must have best of references and be a smart Counterman; permanency to good man; half-holiday weekly; no Sunday duty; good living accommodation. State wages required and give references from last two employers, Thompson's, Cash Chemists, Ashton-under-Lyne.

WANTED, immediately, qualified Assistant in small country business; Photographic work; indoors; easy hours. Full particulars, with photo, to Mrs. G. A. Davis, Chemist, Lechlade, Glos.

WANTED, at once, for a good-class Mixed business in manufacturing town, near Manchester, a smart Junior (outdoors); reasonable hours; no night or Sunday duty, and half-holiday weekly. Send full particulars and photo in first letter, Geo. Wild, Chemist, Hyde.

WANTED, immediately, smart, energetic young man; about 21; permanency; one who has had experience in a business where Cattle Medicines have been sold preferred. State age, salary required, when at liberty, etc., 128/29, Office of this Paper.

WANTED, immediately, a qualified Assistant, not over 35; must be well recommended, have a gentlemanly appearance and address, and be a good Salesman. Applications (personal preferred) must contain full particulars as to age, height, experience, references, recent photo (salary 45s., outdoors), Parson C. Baker, 174 Victoria Street, S.W.

WANTED, immediately, qualified Assistant (aged 23 to 25 years) for Bulawavo; one who has had experience in Wholesale and can take relief when required in Retail; 3 years' agreement; second-class passage paid out; salary £17 10s. per month first year, £20 second year, and £22 10s. third year. Apply, 131/1, Office of this Paper.

WHOLESALE.

A LEADING London Optical house have a vacancy for a Show-room Salesman; he would eventually be expected to take the post as Traveller either at home or abroad; previous Wholesale experience preferred, but not indispensable; S.M.C. qualification desirable; liberal terms would be made with a gentleman of undoubted good character and address; communications will be received in strict confidence, and applicants must state full particulars of their present position, age, and wages expected. Apply, "Enterprise" (134/59), Office of this Paper.

AN IMPORTANT FIRM of Manufacturers of Pharmaceutical Preparations require for their London House a Specialist able to Manage the introduction of their Proprietary Articles; he must have a Scientific, Pharmaceutical, and Commercial training, be thoroughly acquainted with British Physicians and Hospitals, well versed in all matters relating to advertisements, and full of energy and push; none but Englishmen need apply, but those knowing German will have preference. 173/46, Office of this Paper.

CLERK (Invoice) wanted for Wholesale Drug house in Scotland; must be experienced, having good knowledge of Drugs and Pricing. Apply, with references, stating age and salary desired, Raimes, Clark & Co., Ltd., Edinburgh.

JUNIOR Assistants for "Wets" and "Dries" wanted by Wholesale Drug-house in City; must be willing, active, and good penman. Replies, giving age, references, and salary to commence. Address, 131/19, Office of this Paper.

OFFICE, Export Druggists, London.—Managing Clerk with first-class experience of routine of Shipping Invoicing, etc., who has had two or three others under his control; none but those thus qualified entertained; state full particulars and salary expected; good opportunity for competent and energetic man. Apply, with full particulars, to 173/45, Office of this Paper.

REPRESENTATIVE; Medical and General Printers; part or whole. Wheatons, Paternoster Press, Exeter.

REQUIRED, qualified Assistant for checking and labelling in London Wholesale Drug house. Write, stating experience and salary required, to 124/4, Office of this Paper.

SITUATIONS OPEN—cont.

SURGICAL Instrument Makers.—Assistant Manager wanted; thorough knowledge of the Surgical Instrument trade essential; good organiser. Address, "H. L., Allen & Hanburys, Ltd., 48 Wigmore Street, W.

TRAVELLER, smart young man, having connection among Chemists, to work London and district, introducing 2d. "Nyto" Shampoo-powder for killing vermin on the head; a distinct novelty, which sells on sight; extensively advertised. Also one for Midlands. Give previous experience, salary expected, references, to "Nyto" Co., 2 Patterson Road, Nottingham.

TRAVELLER wanted for Proprietary article; must have good connection and references; applicants please give fullest particulars of qualifications and experience; salary and commission to suitable man. Also required, Representative having another line, to work on commission, with allowance for part expenses. Box 21, London Publicity Co., Ltd., 379 Strand, W.C.

TRAVELLER required by well-known London firm of Wholesale Druggists and Manufacturing Chemists to call on London Doctors to introduce new preparations; must be of gentlemanly appearance and address, and possess a knowledge of Pharmacy and Therapeutics; previous experience in travelling not essential, but preferable. State age, experience, salary required, etc., to "Pharmakon," c/o Street's, 30 Cornhill, E.C.

TWO Representatives required by an old-established Drug-house; one for the Midlands and North, the other for the South Coast; must have a connection that has been regularly called on and possess an up-to-date knowledge of Packed Pharmaceuticls. "Tenaity" (173/38), Office of this Paper.

TYPIST (Junior, male) required for Wholesale City house; one accustomed to use Billing machine preferred. Replies, giving age, experience, and salary expected, to 131/91, Office of this Paper.

WANTED, by a very old-established house, a smart Salesman, who is already calling on Chemists, to take up and push as a Side-line the sale of a first-class Household Remedy for all Aches and Pains; extensive advertising scheme to commence immediately to support his efforts; good remuneration to really good man. Apply, enclosing photograph and all necessary information, to "Chemicus" (157/60), Office of this Paper.

WANTED, Assistant Buyer for a London firm of Wholesale Druggists' Sundriesmen. Address, giving previous experience and salary expected, to "Measure," at Horneastle's, 61 Cheapside, E.C.

WET Counter.—Wanted, by a City Wholesale Drug house, a man for the Wet Counter. Address, stating age, experience and wages required, "Borax" (172/69), Office of this Paper.

TO LET.

CITY OF LONDON.—Commanding Shop to Let at a low rent; first-rate opening in fine position for energetic Chemist and Druggist; every facility afforded; busiest thoroughfare in City and adjacent to two railway stations. Apply, Langhorne & Co., Surveyors, 2 Broad Street Place, E.C. Telephone 14793 Central.

HIGH STREET, Harlesden.—Modern Shop to be Let, in the best position, with excellent living-rooms and back entrance; a first-rate opening for a Chemist and Druggist, in an established centre; rent £100 per annum, with a period free, or the shop might be fitted. Apply to Messrs. H. E. Foster & Cranfield, Surveyors, 6 Poultry, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid.

WINDOW-DRESSING Up-to-date.—Moderate charges. Pierce, 10 Lunham Road, Upper Norwood, S.E.

LOCUM or Part-time; qualified; abstainer; active; disengaged. "Borax," 535 Holloway Road, N.

LOCUM; qualified; excellent references; disengaged. "Caius," 21a Castletown Road, West Kensington.

PART-TIME, evenings, Sundays; experienced; qualified. "Pharmacist," 31 Atherfold Road, Clapham, S.W.

QUALIFIED, F.S.M.C.; 25; outdoors; London or suburbs. Marshall, 73 Priory Park Road, Kilburn, N.W.

IPSWICH (Main Street).—Attractive double-fronted Shop, with dwelling; excellent opening for Chemist; rent £26. E. R. Oxbourn, Auctioneer, Ipswich.

LEICESTER.—Commanding corner Shop Premises to Let, in best position largest ready-money market; spacious windows and floor space; excellent living accommodation; large dry basement; rent moderate. Apply, J. W. Haylock, Ltd., Marble Street, Leicester.

PURLEY (High Street).—Excellent Shop and House to be Let on lease in this rapidly improving district, at a commencing rental of £75 per annum (or offer from first-class man); just redecorated; immediate possession. Apply, "F.," 40 Christchurch Road, Streatham, S.W.

FOR SALE.

FOR immediate Disposal, for removal, the Stock, Fixtures, and working Utensils of an old-established Drug business; the fixtures are in good condition, and stock suitable for general trade; good opportunity for anyone commencing business. Apply, T. Johnson, 8 Market Place, Wigan.

IN BANKRUPTCY.—The Official Receiver, 132 York Road, S.E., invites offers for the nearly new fixtures by Maw & Son, including two 6 ft. 6 in. mahogany window enclosures with shaped shelves, 12-ft. run mahogany counter, plate-glass front, handsome 15-ft. plate-glass wall-case, upright perfume-case 6 ft. 6 in. by 5 ft. high, and counter at back, mahogany shelving (mirror backed) and cupboards, 21-ft. run with 35 drawers and lockers under, and the Druggists and Perfume Stock on the premises, 3 Imperial Buildings, Forest Hill, S.E. Offers for the above or for any part may be made to Official Receiver as above, or to Parson C. Baker, 174 Victoria Street, S.W.

SHOP Fittings for Sale, splendid condition; one wall fixture 15 ft. 1 in. by 8 ft. 9 in. high, one 6 ft. 8 in. by 8 ft. 9 in. high; both with shelves above, with plate-glass mirror backs and drawers below; one case 13 ft. 1 in. by 9 ft. high; all the above are polished mahogany. Hart, Chemist, Bolton.

AGENCIES.

A capable Moscow Agency house wishes to Represent in Russia a few first-class Manufacturing firms. Good references. Apply, M. K. (111/38), Office of this Paper.

AGENCIES Wanted.—Messrs. C. H. Huish & Co., sole British Agents for the "Pasteur" Vaccine Co., Paris, "Tallianine," "Exalgine," "Vergotinine," etc., are open to negotiate for others. Apply, 12 Red Lion Square, London, W.C.

GENTLEMEN, well connected, leaving shortly for Canada and South America, would like to correspond with firms of repute with a view to Agencies for the above markets. Address, "J. B.," at Horneastle's, 61 Cheapside, E.C.

QUALIFIED, middle-aged, as Locum; half-day, day, etc.; varied experience. "G.," 9 Wanstead Park Road, Ilford.

ASSISTANT; disengaged; outdoors; experienced; moderate salary. Browne, 23 Alfred Street, Bow, London, E.

ASSISTANT; West-end and Store experience; outdoors; or Dispenser; town. "H. G.," 6 Willow Avenue, Barnes, S.W.

ASSISTANT, Managing Assistant, Locum; good experiences; references. "Qualified," 23 Wood Lane, Shepherd's Bush.

DISPENSER to Doctor and Bookkeeper; excellent references; disengaged; London. "S. S.," 175 Kennington Road, S.E.

Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

Monday, January 18.

Dewsbury Chemists' Association, Church Institute, Church Street, at 8 P.M. Mr. C. T. Allen on "The Pharmaceutical Defence Association."

Tuesday, January 19.

Leicester Chemists' Association, Turkey Café, Granby Street, at 8.30 P.M. Discussion on the Poisons and Pharmacy Act.

Huddersfield Chemists' Association, Queen Hotel, at 8.45 P.M. Mr. C. T. Allen on "The Pharmaceutical Defence Union."

Wednesday, January 20.

Pharmaceutical Society of Great Britain, North British Branch, 36 York Place, Edinburgh, at 8.30 P.M. The following papers will be read: "Melting-points by Different Methods: a Comparison"; "Optical Rotation in the Assay of Jalap and Scammony Resins," by Mr. W. B. Cowie, Ph.C., F.C.S.; "Examples of Incompatible Mixtures," by Mr. Peter Fenton; "What Shall I Do? A Dispenser's Dilemma," by Mr. Donald McEwan.

Royal Microscopical Society, 20 Hanover Square, London, W., at 8 P.M. Lord Avebury will deliver his presidential address "On Seeds, with Special Reference to British Plants."

Midland Pharmaceutical Association, Grand Hotel, Birmingham, at 6.50 P.M. Whist-drive. Tickets (4s. each, 7s. 6d. double tickets) from the Hon. Secretary, Mr. J. A. Radford, 14 Union Street, Birmingham.

North Kent Chemists' Association, Freemason's Hall, New Brompton, at 4.15 P.M. Meeting of registered chemists. Address by Mr. Hobbs (Tunbridge Wells).

Nottingham Pharmaceutical Association, Calvert's Café, Long Row, at 9 P.M. Discussion on the Poisons and Pharmacy Act.

Bournemouth Pharmaceutical Association, Gervis Hall Restaurant, at 8 P.M. Conversazione, reception by Mr. and Mrs. Haynes. Tickets (2s. 6d. each, 4s. 6d. double) from the Hon. Secretary, Mr. W. A. Bingham, 58 Charninster Road.

Leeds Chemists' Association, Grand Restaurant, Boar Lane, at 9 P.M. Lantern-lecture by Mr. S. R. Mundell, "London to Rome."

Thursday, January 21.

Chemical Society, Burlington House, Piccadilly, London, W., at 8.30 P.M. Among the papers to be communicated are the following: "Organic Derivatives of Silicon. Part IX., Experiments on the Resolution of di-benzylethylpropylisobutylsilicane Sulphonic Acid," by Professor F. S. Kipping and Mr. H. Davies; "Synthesis of Diurea from Urea," by Dr. F. D. Chattaway; "Chlorine Derivatives of Substituted Ureas," by Dr. F. D. Chattaway and Mr. D. F. S. Wünsch; "Chemical Examination of Eriodictyon, Part II.," by Mr. F. Tutin and Mr. H. W. B. Clewer; "The Hydration of Precipitates," by Mr. S. U. Pickering; "A Glucoside from *Tephrosia purpurea*," by Mr. G. Clarke, jun., and Mr. S. C. Banerjee.

London Chemists' Association, The Horns, Kennington Park, S.E., at 8 P.M. Musical and social evening. Ladies are invited.

Chemists' Assistants' Association, 73 Newman Street, Oxford Street, London, W., at 9 P.M. Whist-drive.

Bath Pharmaceutical Association. Whist-drive.

Bradford Chemists' Association, Royal Hotel, Darley Street, at 9 P.M. Mr. A. E. Benny, paper entitled "The Devil among the Botanists."

Friday, January 22.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 9 P.M. Dr. Alfred Russel Wallace on "The World of Life, as Visualised and Interpreted by Darwinism."

The annual dinner of the Leicester Chemists' Association will take place at the Grand Hotel on February 25.

The annual dinner of the Peterborough Chemists' Association is fixed for February 18. It is expected that Mr. J. R. Young (President of the Pharmaceutical Society) will be present. Mr. J. W. Hall, 6 Long Causeway, will supply further particulars.

A CINDERELLA dance promoted by the Western Chemists' Association is to be held at the Restaurant Frascati, Oxford Street, London, W., on January 29. Tickets (4s. each) from

Mr. H. Raithby Procter, Hon. Secretary, 113 The Grove, Hammersmith, W.

A CINDERELLA dance in connection with the Chemists' Assistants' Association will be held in the International Hall of the Café Monico, London, W., on February 11. Tickets (3s. each) can be had from Mr. B. R. Wilkinson, 18 Poynders Road, Clapham Park, S.W.

The annual dinner of the Blackpool and Fylde Chemists' Association is to be held at the Palatine Hotel, Blackpool, on January 27, Mr. J. R. Young (President of the Pharmaceutical Society) and Mr. W. S. Glyn-Jones (Parliamentary Secretary) are to be present.

In connection with the Thames Valley Chemists' Association a whist-drive is to be held on January 27 at Nuthall's Banqueting Hall, Kingston-on-Thames. Tickets (single 3s., double 5s. 6d. for two) from the Hon. Secretary, Mr. T. Evans, Grand Parade, Putney, London, S.W.

The Sheffield Pharmacy Athletic Club have arranged a dance, to be held at the Imperial Rooms, Pinstone Street, for Thursday, January 28, from 8 to 1. Tickets (single 3s., double 5s. 6d.), including refreshments, may be obtained from the Hon. Secretary, Mr. F. R. Clark, 87 Ecclesall Road.

The annual dinner of the Stockport Chemists' Association will be held at the County Restaurant, Stockport, on February 11, 1909. Mr. J. R. Young (President of the Pharmaceutical Society) will be present. Tickets (4s. each) may be had from the Hon. Secretary, Mr. Arthur D. Watson, 184 Higher Hillgate.

MR. FREDK. BASCOMBE, F.I.C., of Messrs. Fletcher, Fletcher & Co., Ltd., is to preside at the meeting of the Society of Dorset Men in London to be held in the Crown Room of the Holborn Restaurant on Monday, January 18, at 7.45 P.M., when Mr. R. R. C. Gregory will give a lecture entitled "An Evening with Thomas Hardy's Rustics."

College Notes.

MUTER'S SCHOOL OF PHARMACY.—The usual examinations for the four silver medals awarded each term resulted as follows: Chemistry, Mr. William Clark; botany, Mr. John G. Walker; materia medica, Mr. Arthur R. Hewish; pharmacy, Mr. Edward Robinson.

BATH COLLEGE OF PHARMACY A.F.C. v. BATH ALBIONS.—The College men visited the Albions' ground at Bathampton on January 7. After a keen struggle they succeeded in defeating the homesters by three goals to one. On behalf of the College Freeman scored two goals and Black one.

SOUTH OF ENGLAND COLLEGE OF PHARMACY.—The awards for the College examinations held at the end of the winter term are as follows: Silver medal of the College, Mr. J. S. White. Bronze medals: Chemistry, Mr. J. S. White; botany, Mr. D. T. Llewellyn; pharmacy, Mr. J. S. White; materia medica, Mr. J. S. White. The "Attenborough" prize for dispensing was awarded to Mr. Thos. B. Fox, while Mr. J. S. White took the "De Morgan" prize, presented by Mr. F. Filmer De Morgan for the best paper on "Pharmacy." Certificates of merit were awarded to Messrs. D. T. Llewellyn, T. B. Fox, W. M. Hamson, P. Wesley, J. C. Emmott, A. Walton, W. Sivertsen, H. Warren, R. Ellis, J. Gould, C. Farmer, and J. S. White.

WESTMINSTER COLLEGE OF PHARMACY.—The prize distribution took place at the Surrey Cricket Club Hotel, Kennington Oval, on January 8, and was followed by a smoking-concert. There was a large attendance. During the evening Mr. A. G. Cowie, on behalf of the students, presented Mr. G. S. V. Wills with a handsome silver shaving-stand, fitted with razors, etc., as a token of their high esteem. The medal winners are as follows: Chemistry, Mr. T. W. King; Botany, Mr. A. G. Cowie; Materia Medica, Mr. A. G. Cowie; Pharmacy, Mr. T. W. King and Mr. A. G. Cowie (equal); Dispensing, Mr. R. R. Waghorn. Certificates of merit were awarded to Messrs. V. G. Stockwell, V. W. Stanley, T. L. Jones, G. O. Ravenshaw, B. W. Evans, E. E. Roberts, F. B. Lumpton, T. H. Paddon, J. J. McIntosh, C. Turner, and H. C. Payne.

Where to Study.

The following educational institutions are advertising in this issue:

Muter's (South London) School of Pharmacy, 325 Kennington Road, London, S.E.

London College of Chemistry and Pharmacy, 323 Clapham Road, London, S.W.

Liverpool School of Pharmacy, 18 Colquitt Street, Liverpool.

Bath and West of England College of Pharmacy, Cleveland Place, Bath.

Edinburgh Central School of Pharmacy, 26 Clyde Street, Edinburgh.

Festivities.

Smoking Concert.

THE Oldham Pharmaceutical Association held a smoking concert on January 5 at the Oriental Restaurant, Church Terrace. Songs and readings were given by Mr. Edward Kirby, Mr. J. E. Wood, Mr. H. H. Wareing, Mr. Isaac Lees, and Mr. T. Baker, and at the conclusion Mr. J. E. Wood led off with the National Anthem.

Whist.

THE first whist-drive of the session held under the auspices of the Birkenhead and Wirral Chemists' Association took place at the Avondale Café, Church Street, Liverpool, on January 7, and was attended by eighty-four members and friends. The drive was in charge of Mr. Wynne (Hon. Treasurer), who very ably carried out the duties. The prizewinners were: First lady's, Mrs. Hardy; second, Miss Hilda Ellithorne; first gentleman's, Mr. Cornwall; second, Mr. Walker (Little Sutton). The sealed prizes were won by Mrs. Hannevinkel and Miss Andrews, and Messrs. Hickin and Moxon. Mrs. F. C. Cooling (President) presented the prizes to the winners. A hearty vote of thanks, proposed by the President, seconded by Mr. Last, was accorded to Mr. and Mrs. Wynne.

Chemists' Assistants' Association.

THE second half of the session began well at 73 Newman Street, W., on Thursday evening, January 7, a much larger gathering than usual being at the "social evening." Among those present were Mr. A. Latrielle (in the chair), Messrs. C. Morley, A. Grange, J. Gordon, H. R. Culling, J. E. Brindley Grice, S. Donally, R. E. Lownsbrough, S. B. Salisbury, A. E. Bland, Everson, F. W. Hill, Massey, A. S. Peake, L. A. Howse, E. Thompson, G. O. Pfinninger, R. V. Kennard, F. Dickson, J. Hutcheon, A. R. Arrowsmith, L. Gwatkin, B. Wilkinson, and F. L. K. Loxley (Hon. Secretary). Messrs. F. E. Farman, W. Trattles, and H. F. Griffiths (Kobe, Japan) were proposed as members. An unusually varied and interesting programme was provided, Mr. Latrielle setting the ball rolling. The successes of the evening were Messrs. Donally, Lownsbrough, Everson, and Grange. Mr. Donally's "Fishing" and "One-and-a-penny a Day" created much amusement, while Mr. Lownsbrough's variation of "Jack Spratt" and the "Tail of a Tale" were of the best. Messrs. Everson and Grange were in fine voice. Nearly all the items obtained encores. Messrs. Morley, Gordon, and others also did their share in providing an excellent evening's entertainment. During the evening 17. 1s. 3d. was collected on behalf of the Pharmaceutical Benevolent Fund.

The Forty-third.

THE annual Chemists' Ball was held this year in new surroundings. The pillared elegance of the Wharnccliffe Rooms, Great Central Hotel, London, was the frame in which the *élite* of pharmacy and their lady friends danced the happy hours away on January 13 and 14. The company, as large (in numbers), well dressed, and pleasant as usual, was received by Mr. and Mrs. J. F. Harrington, and at nine o'clock sharp dancing began. The unfamiliar surroundings appeared to have at first a slight chilling effect on the company, but this gradually wore off, and during and after supper all was as merry as the proverbial marriage bell until four o'clock in the morning. Among those present were Mr. and Mrs. J. C. Umney, Mr. and Mrs. R. A. Robinson, jun., Mr. and Mrs. Alan Francis, Mr. and Mrs. Vivian C. Hewlett, Mr. and Mrs. E. W. Hill, Mr. and Mrs. H. N. Bolton, Mr. and Mrs. W. J. I. Philp, Mr. and Mrs. E. A. Holloway, Mr. and Mrs. Cleaver, Mr. and Mrs. J. E. Southon, Mr. and Mrs. Arrowsmith, Mr. and Mrs. Brittain, Mr. and Mrs. Dixon, Mr. and Mrs. Ford, Mr. and Mrs. H. Hickey, Mr. and Mrs. F. W. Gamble, the Misses Bourdas, Miss Layman, Miss Giddon, Messrs. R. C. Wright, J. Stuart Hills, W. Idris, T. Idris, G. E. Pearson, D. M. Watson (Dublin), C. Martin, R. E. Lownsbrough, and Dr. Jowett. At the supper Mr. J. F. Harrington, who presided, paid tribute to the success of the arrangements made by the committee, and proposed "The Ladies." The Secretary of the Ball Committee (Mr. F. U. Stamp), in his reply, mentioned that a golf-match was in prospect

between members of the Drug Club and other members of the drug-trade. All who desire to take part in this match should communicate with Mr. J. C. Umney or with Mr. Stamp. A special meed of praise is due to Messrs. Umney, E. W. Hill, V. C. Hewlett, and R. A. Robinson, jun., who were assiduous in looking after the welfare of the dancers. They introduced diffident and retiring male pharmacists to gracious ladies, and arranged supper-parties, with a success that was apparent before the evening was over.

Newcastle Diners.

THE twelfth annual dinner of the Newcastle-on-Tyne and District Chemists' Association was held at the Hôtel Métropole, Newcastle, on Wednesday evening, January 13, Mr. T. Maltby Clague (President) in the chair. Among the company of sixty gentlemen present were the Lord Mayor and Sheriff of Newcastle. Mr. J. F. Tocher (President of the British Pharmaceutical Conference) was the guest of the evening, and others present included Sir Edward Evans, Liverpool; Mr. G. F. Merson, Kilmarnock; Mr. G. Weddell, Newcastle; Alderman J. Harrison and Messrs. Cherrett, Bell, and Nimmo, Sunderland; Messrs. R. Ismay, C. Ismay, W. Kerse, H. Noble, N. Gilderdale, W. Gray, C. E. Layne, and W. Wyatt, Newcastle. The loyal toasts were honoured after dinner, and following these came that of the "Pharmaceutical Society of Great Britain," which was submitted by Sir Edward Evans in his characteristic manner. In his speech he referred to the recent legislation, saying that in this work the Society had done good to the trade. Alderman Harrison, as a member of the Pharmaceutical Council, acknowledged the toast, and, taking up Sir Edward's remarks regarding the

POISONS AND PHARMACY ACT,

said they had got by it as much as some of them had reason to expect they would get. Although they had not got a qualified directorate for all limited companies, they had got it to the extent of the use of the title. This was something which would prove of advantage. The greatest mischief, from the moral point of view, was the one-man company, which, he considered, would become a thing of the past. He looked with some anxiety to the section dealing with the sale of agricultural poisons, and regarded with amazement that the Privy Council had got, after all, a third schedule of poisonous articles. In these points he considered the Act to be retrogressive. In their criticism of the Society he asked them to bear in mind that the ultimate decision of what the Pharmacy Acts should be did not rest with the Pharmaceutical Society or its members; it rested with Parliament; and to that Parliament they had appealed, and the result lay before them.

Mr. G. Weddell, in submitting the toast of "The British Pharmaceutical Conference and the President," said, like many other things, it originated in Newcastle, and was coming again to the city after an interval of twenty years. They welcomed Mr. Tocher as their President, a distinguished pharmacist who had many side-lines of study, notably in biology and sociology. In responding, Mr. Tocher described the new Pharmacy Act as a splendid

EXAMPLE OF ADAPTATION TO REQUIREMENTS.

When he said adaptation to requirements he did not mean that there had been necessarily true progression, or that the best possible had happened to the pharmacist or to the British public, but he would say this: the best practically possible under existing conditions had happened. Certain anomalies had been removed, but, on the other hand, there were still matters which needed attention. The most dangerous feature of the Act was the empowering of local authorities to grant licences for the sale of arsenical and other poisons for certain definite purposes, and he only hoped that facilities would be given for the sale of these poisons only where they were urgently required, and where they could not be acquired from the ordinary sources. He hoped, too, that something would be done with respect to quack medicines. He thought if the public were further protected from charlatans and other vendors of quack medicines a great public service would be rendered to the nation. They had also in England another great grievance, and that was the dispensing of prescriptions by unqualified servants of medical practitioners, to the detriment of the public and to the detriment of the men specially trained to carry out

their work. He thought that the pharmacist was entitled at least to follow the calling for which he was trained and had studied. Still, he agreed with Alderman Harrison that the company difficulty had been solved in a satisfactory manner, and he was bound to add also that the compulsory examination power given to their Council was also a reform. Mr. Tocher concluded by saying that he looked forward with pleasure to presiding over the Newcastle Conference.

The toast of "The Lord Mayor and Corporation of Newcastle-upon-Tyne" was put by Mr. F. Gilderdale, and the Lord Mayor and the Sheriff responded. Mr. Wm. Wyatt gave "The Newcastle and District Chemists' Association and Kindred Associations," and Mr. R. H. Bell responded.

Other toasts followed, and throughout the evening some good music was rendered.

Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications should be lodged with Sir C. N. Dalton, K.C.M.G., C.B., Comptroller-General of Patents, Designs, and Trade-marks, at the Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned. The objection must be stated on Trade-marks Form No. 7, cost £1, obtainable through any money-order office.

The figures in parentheses refer to the classes applied for.

(From the "Trade-marks Journal," January 6, 1909.)

- "CALSERCH"; for chemicals (1). By Isaac Bentley & Co., Ltd., Trafford Wharf Road, Manchester. 307,325.
- "BITUROS"; for all goods (in 1, 2, 4, 17, 18, 21, and 50). By Wailles, Dove & Co. (1906), Ltd., 5 St. Nicholas Buildings, Newcastle-on-Tyne. 307,421/307,427.
- "LENICET"; for medicinal chemicals (3). By R. Reiss, 27 Grolmannstrasse, Charlottenburg, Berlin. 305,487.
- "EUPHYLLIN"; for medicinal chemicals (3). By Chemische Werke vorm. Dr. H. Byk, 23 Windscheidstrasse, Charlottenburg, Berlin. 306,214.
- "FOG SIGNALS"; for medicated lozenges and tablets (3). By Potter Clarke, Ltd., 60-64 Artillery Lane, London, E. 308,215.
- "CASCARLENT"; for a medicine (3). By Brady & Martin, Ltd., Northumberland Road, Newcastle-on-Tyne. 308,403.
- "PEMIC"; for medicinal chemicals (3). By J. Timpson & Co., Ltd., 104 Golden Lane, London, E.C. 308,461.
- "LUSAN"; for medicinal chemicals (3). By Menley & James, Ltd., Menley House, Farringdon Road, London, E.C. 308,520.
- "HONYOL"; for food substances (42). By The Crimony Co., Ltd., 15 South Street, London, E.C. 306,400.
- "AMBREINE"; for beverages (42). By Jewsbury & Brown, Ardwick Green North, Manchester. 307,477.
- "TIGER BRAND," and picture of same; for malt extract (42). By Bristol Distilling Co., Ltd., Cheese Lane, Bristol. 308,561.
- "THE ELK," and picture of same; for aerated waters (44). By George Thomson & Son, 4 Coatfield Lane, Leith. 308,136.
- "WOLFF-METTERNICH SPRING," and label device; for a mineral water (44). By Graf Fritz von Wolff-Metternich, Schloss Vinsebeck bei Steinheim, Westphalia. 308,332.
- "SAPON" (by order of Board of Trade); for common soap, detergents, etc. (47). By Sapon, Ltd., 24 and 25 King William Street, London, E.C. 297,049.
- "CLARAX"; for detergents, etc. (47) and for perfumery, etc. (48). By Alexis Schleimcr, Leipzigerstrasse, 123A, Berlin. 306,590/1.
- "SUNNYSMILES"; for cloth-cleaning preparations (47). By Vanner & Prest, 1 and 2 Chiswell Street, London, E.C. 306,984.
- "CHAPPENA"; for a toilet preparation (48). By W. H. Rawles, 11 Queen Victoria Street, London, E.C. 307,857.
- "VIVOZON"; for liquid toilet preparations (48). By Josef Pieniczka, 20 Paniglgasse, Vienna IV. 308,109.
- "NAIAD"; for toilet articles (48). By Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, London, E.C. 308,151.

CHINESE EGG ALBUMEN.—The exports from Shanghai during 1907 amounted to 12,902 cwt., valued at 71,587.

The exports of cod-liver oil (quality not stated) from the Faroe Islands during 1906 amounted to 1,751 barrels.

Prescription Problem.

THE response to the problem in prescription-reading which was set in the issue of THE CHEMIST AND DRUGGIST for January 2 has been good, the solutions sent in being more numerous than for some time past. The exact reading of the prescription is as follows:

Ung. Atrop $\frac{1}{2}$ % t d
mitte $\frac{3}{8}$ ss
Lot z chlor gr $\frac{1}{2}$ ad 5j
t d
mitte $\frac{3}{8}$ vj

The most debated point in the problem was whether liq. or ung. atropinæ was indicated in the first line. The prescription is obviously for some eye-trouble, and no doubt many competitors argued that the liquid preparations of atropine are mostly employed. It happens also that some oculists who wish to obtain a constant dilation of the pupil prefer to order atropine in an oily or greasy basis; the action is slower and the use of the remedy less painful to the patient than in the case of a plain aqueous solution. This probably accounts for the physician ordering atropine in the form of an ointment. To dispose of any doubts we may add that the great majority of the postcards indicated ung. as the form. Other forms shown were liq., gut., trit., sol., mist., instil., and lot. The second medicament is a zinc-chloride lotion of the strength of half-a-grain to the ounce. The abbreviation used for zinc, "Z," did not puzzle many of the competitors; there were, however, a few who were entirely misled over this part of the prescription, and we received such renderings as

Syr. butyl. chlor.
Hydrarg. bichlor.

Morph. chlor.
Eucain β chlor.

Nineteen London competitors sent in correct solutions to the problem, but about half of these were not sent in until the C. & D. had been in hand for some days. In checking the order of posting of those that were sent off on January 1, we find that the earliest marking is 2.15 p.m., this being on a card posted by

MR. J. RICHARDS,
53 Knightsbridge, S.W.

Of the competitors in the provinces who posted correct solutions, the earliest card, bearing the postmark 5.45 p.m., January 1, was sent by

MR. A. TYREMAN,
c/o Mr. F. P. Watson, Ph.C.,
Baillgate, Lincoln.

Scotland and Ireland are not represented in the cards of those who sent in correct solutions, but among the Continental competitors the first to reach us was from

MR. G. H. PIERSON,
20 Rue Serviez,
Pau, France.

The prizes are awarded to the above-named gentlemen, and prizes have accordingly been forwarded to them.

The prescription for the next competition is given below. The usual prizes are offered; postcard solutions of the problem should reach us before January 21.

Handwritten solutions:
1. Ung. Atrop $\frac{1}{2}$ % t d
mitte $\frac{3}{8}$ ss
Lot z chlor gr $\frac{1}{2}$ ad 5j
t d
mitte $\frac{3}{8}$ vj
2. Ung. Atrop $\frac{1}{2}$ % t d
mitte $\frac{3}{8}$ ss
Lot z chlor gr $\frac{1}{2}$ ad 5j
t d
mitte $\frac{3}{8}$ vj
3. Ung. Atrop $\frac{1}{2}$ % t d
mitte $\frac{3}{8}$ ss
Lot z chlor gr $\frac{1}{2}$ ad 5j
t d
mitte $\frac{3}{8}$ vj
4. Ung. Atrop $\frac{1}{2}$ % t d
mitte $\frac{3}{8}$ ss
Lot z chlor gr $\frac{1}{2}$ ad 5j
t d
mitte $\frac{3}{8}$ vj
5. Ung. Atrop $\frac{1}{2}$ % t d
mitte $\frac{3}{8}$ ss
Lot z chlor gr $\frac{1}{2}$ ad 5j
t d
mitte $\frac{3}{8}$ vj

At Canton 60,000 wooden opium-licences have been ordered for the replacement of the old paper licences. The size of the licence is 9 in. long by about 7 in. wide; on the face is written the date, month, and year of its issue, and the quantity of opium purchased a day may be seen at a glance.

South African News.

(From the "C. & D." Correspondents.)

Note.—"The Chemist and Druggist" is regularly supplied by order to all the members of all the Pharmaceutical Societies in British South Africa, viz.:

South African Pharmaceutical Association.
Pharmaceutical Society of Cape Colony.
Natal Pharmaceutical Society.
Transvaal Pharmaceutical Society.
Rhodesia Pharmaceutical Society.
Northern District Chemists' Association.
Pharmaceutical Society of Orange River Colony.

Natal.

MESSRS. TURNER & Co., Pietermaritzburg, have secured the contract for the supply of drugs, dressings, etc., to the City Hospital during 1909.

MR. R. R. MARTIN (F. Stearns & Co., Detroit, Mich.) arrived at Port Natal on December 7, and sailed for the East on the same day.

MR. MARTIN ELGAR (Johnson & Johnson) was due at Durban on December 26, and expected to sail for Bombay in the *Umsinga* a day or two later.

Transvaal.

COUNCILLOR E. J. ADCOCK, of Krugersdorp, was in Durban when the mail left, Mrs. Adcock and their little son being due to arrive from England in the s.s. *Guelph*.

The Week's Poisonings.

ELEVEN fatalities, including one misadventure, have occurred with poisons during the week. The fatalities in three instances were caused by poisons in Part I. of the Schedule, while Part II. poisons caused death in four other instances; the remaining substances taken being unscheduled. At the inquest respecting the death of Mr. G. Fairweather, the jury returned a verdict of suicide while temporarily insane. An analysis of the stomach-contents showed the presence of about half-an-ounce of prussic acid.—A similar verdict was returned on the body of Charles S. Bradford (17), who also used the same lethal agent. Deceased was employed as a messenger by Mr. T. Johns, chemist and druggist, successor to Messrs. R. Perry & Son, Ltd., 73 High Street, Gravesend. At the inquest it transpired that he had been strange of late, developing dirty habits and also signs of extravagant spending of money.—Ernest A. Bridges (20), seaman, Islington, N., died after taking some cocaine-tablets. Deceased told his sister he had taken eight. The usual verdict was returned.—John Macpherson was found dead in bed at Edinburgh with a bottle that had contained laudanum by his side.—It was stated at the inquest upon a Wandsworth solicitor, named Thomas Bore (49), that deceased was accustomed to take chlorodyne as an opiate. The jury found that deceased took an overdose of the chlorodyne, but they were unable to express any opinion as to his intention.—Florence Pugh, the wife of a Wrexham bookkeeper, committed suicide by taking oxalic acid.—Amy Keeton (24), domestic servant, Brockley, died in consequence of alcoholic-poisoning. It was stated that deceased committed suicide, owing to a broken engagement, by drinking about a pint of whisky.—William Pleasance (49), road-sweeper, Westcliff, ended his life by drinking spirit of salt. Mr. H. Crookham, chemist and druggist, 26 Milton Road, Westcliff, deposed to having supplied deceased with the acid to clean a brass kettle. He cautioned him as to possible dangers in using it.—A Notting Hill servant-girl, Daisy Stevens (21), who was said to be addicted to laudanum-drinking, committed suicide by taking spirit of salt.—Ellen Long (28), a Haggerston machinist, feeling unwell, went to a cupboard to obtain some whisky. However, she took down a bottle containing spirit of salt, of which she drank with fatal result.—At the Tower Bridge Police Court, during the hearing of the charge against Henry Morger of murdering his wife, it was said that the prisoner, when told of the charge, said, "I gave her bichromate of potassium, one-tenth part of chloroform, some very black coffee, and plenty of sugar."

Minor Examinations.

WE have received from the Registrar of the Pharmaceutical Society of Great Britain the following list of persons who were granted certificates at the Minor examinations this month:

BEFORE THE BOARD IN LONDON.

Ashworth, Wallace N., Wisbech
Bann, Arthur, Stockport
Barker, Robert H., Todmorden
Blackburn, Reginald, Barnsley
Bryant, Harold L., Manchester
Burwell, James A. Colwyn Bay
Cadoux, Samuel H., Leicester
Calvert, Sidney, Aberdare
Clark, William, Wigton
Cowie, Alexander, London
Cropper, W. E., Altrincham
Curé, Charles E., Mauritius
Dunn, Frank A. S., Deal
Edwards, Oscar T., Birmingham
Edwards, William, Manchester
Emmott, James E., Burley-in-Wharfedale
Farnfield, George, Stamford
Fletcher, J. H. V., Prestwich
Gardner, William J., Lancaster
Gould, Frank J., Crewkerne
Gregory, Brooke W., Boston
Grier, Charles, Richmond
Hague, Ernest H., Widnes
Hamson, S. W. M., King's Lynn
Harrison, Cecil B., Onchan
Haywood, Albert, Huddersfield
Humphry, Hubert, Dartmouth
Johnson, Alice M., Harrogate
Kilner, Frederick C., Leeds
Lawrence, William L., Penrith
Macintosh, James W. F., Cricklewood

McKinlay, Finlay, Glossop
Margerrison, H. F., Matlock
Marks, Joseph, East Dulwich
Massey, John R., Farnworth
Massey, Reginald E., Rugeley
Morgan, W. R., Carmarthen
Moss, Harry P., Irlams-o'-th'-Height
Nix, Robert H., Birmingham
Palling, William P., Erdington
Ravenshaw, G. O., Wellington
Reynolds, Thomas W., Aberdare
Robinson, Edward, Whitechurch
Rolason, Dorothy, Edgbaston
Rose, W. G., Moreton-in-Marsh
Scott, George C. V., Newcastle-on-Tyne
Sivertsen, Werner T., Mumbles
Stopforth, Robert, Liverpool
Sumption, F. B., Blackwood
Thomas, F. G., Abergavenny
Thomas, William E., Chester
Thomson, Arthur, Clapham
Turner, Arthur G., London
Walker, John G., Bradford
Walton, Arthur, Tidswell
Welton, Harry S., Attleborough
Wesley, John S. P., Penzance
Wharton, John F., Chesterfield
White, John S., Spalding
Wood, Robert, Rugeley

BEFORE THE BOARD IN EDINBURGH.

Anderson, John A., Arbroath
Banham, Greaves E., Sheffield
Bennison, R. H., North Ormesby
Eowie, James, Edinburgh
Brims, William, Edinburgh
Brown, Frederick T., Norwich
Brown, Matthew, Newmilns
Brown, Peter K., Leith
Chisholm, John S., Cleadon
Elder, John, Fortrose
Fair, E. W., East Linton
Finlayson, James, Alness
Gardiner, W. W., Aberdeen
Geddes, Alexander St. Clair, Bridge of Allan
Gilmour, T. J., Fochabers
Hamilton, Alexander, Glasgow
Henderson, J. C., jr., Galashiels

Hope, A. I., Edinburgh
Howat, R. G., New Cumnock
Huddleston, S. C., Kendal
Hutcheson, L., Fort William
Irvine, Malcolm M., Edinburgh
Mackenzie, James, Aberdeen
MacLaren, Malcolm John, Bridge of Allan
More, John Cossar, Lasswade
Morris, James Thomas, Walsall
Patton, T., jr., South Shields
Richards, John W., Alnwick
Russell, A. S., Greenock
Tait, James C. E., Nottingham
Watson, Edward, Sanderland
Wilson, James, Carlisle
Wilson, Samuel, Banff

New Year Resolutions.

I have made Good Resolutions in plentiful numbers.
Wondering if I can keep them—at least for a while.
When the night-bell breaks the spell of my innocent slumbers,
I will arise and go down with benevolent smile.
When the young scamp of an errand-boy breaks a pint measure,
Murmuring words of excuse, "It slipped out of my 'ands,"
I will attempt to restrain the hot words of displeasure,
And without comment replenish my measure-glass stands.
Should a late-comer, I take for a client, disturb me
Drawn like a moth by the rays of my red-tinted lamp;
I shall need all my New Year Resolutions to curb me,
When his demand is for naught but a halfpenny stamp.
Though some small urchin with jam-besmirched features shall stutter,
"Ave you please got any boxes you're giving away?"
Though the tenth tramp in succession step in from the gutter,
Asking for largesse, no bitter sharp words shall I say.
Even though travellers worry, when I am too busy,
I will be patient, and see all the samples they show;
I will rush backwards and forwards until I am dizzy,
Serving the trivial wants of a fidgety row.
I will in short attempt rapid and great reformation,
Goaded to good resolutions at birth of a year,
So, though I fail, shall I merit some small adulation,
If I have shown that my wishes at least are sincere.
W. H. ALLEN.

THE exports of antimony from Shanghai during 1907 amounted to 39,883 cwt., valued at 28,672Z.

Colonial and Foreign News.

IMPORTS INTO TURKEY.—A large number of drugs and chemical substances which at different times have been put on the Index, such as cacodylate of soda, chlorate and cyanide of potassium, nitro-glycerin, and artificial manures, are now freely admitted into Turkey.

GEHEIMRAT PROFESSOR O. N. WITT has been appointed President of the German Chemical Society. The Hofmann Institute (headquarters of the Society) has recently come into its possession on the dissolution of the Hofmann House Company, and in view of this event the President has decided to strike a medal for distribution among those who contributed most to the foundation of the Hofmann House. It will be of silver, bearing the House on one side and on the other a suitable inscription with allegorical figures.

FAKED REMEDIES.—According to a contributor of the "Apotheker Zeitung," the results of the examination of two original packages of synthetic remedies issued by a Swiss firm are as follows: "Argentum proteinicum" contained 13 per cent. of ash, including 4.56 per cent. of silver, while 23.16 per cent. of the compound was insoluble in water. The ash contained much sodium chloride and iron oxide. Another preparation, "Thymoliodatum," had an iodine-content of 30 per cent., against 46 per cent. in di-thymol-di-iodide. Instead of a slight residue being left on ignition, it contained 27 per cent. of ash, which consisted of iron oxide, alumina, and silica.

American Notes.

(From the "C. & D." Correspondent.)

TARIFF QUESTION.—There is a case before the United States Circuit Court of Appeal which is to decide whether calcium glycerophosphate is to be assessed for duty as a "medicinal preparation" at 55c. a pound, or as a "chemical compound or salt" at 25 per cent. *ad valorem*.

OPTOMETRY.—The law regulating the practice of sight-testing, which came into operation in New York State on January 1, defines the practice of optometry to be "the employment of any means, other than the use of drugs, for the measurement of the powers of vision and the adaptation of lenses for the aid thereof."

CAMPBOR-DUTY.—An amendment of the Dingley tariff, referring to refined camphor, has been drafted. The Courts having held that synthetic camphor, made from oil of turpentine, should be admitted free of duty as crude camphor, it is proposed to restrict the free admission of camphor to the crude natural article. This is a result of experiments conducted by the Department of Agriculture as to the feasibility of obtaining camphor in quantities in Florida. It is possible that crude camphor may be taken off the free list altogether within a few years, this depending upon the success of the camphor-industry in Florida.

POST-GRADUATE COURSES.—The series of post-graduate lectures for pharmacists which is being conducted under the auspices of the Philadelphia branch of the A. Ph. A. is attracting considerable attention, and the audiences have been gratifyingly large. The last lecture was held at the Medico-Chirurgical College and was delivered by Professor G. H. Meeker of that institution, the subject being "The Drug-store Laboratory." Professor Meeker accompanied his lecture by demonstrations, and told his audience how they might gain a closer co-operation with physicians by performing chemical and bacteriological examinations for them.

LONDON CHEMISTS' ASSOCIATION.—This Association met at the Horns, Kennington, S.E., on January 14. Mr. F. W. Truman in the chair. The Chairman, referring to the Poisons and Pharmacy Act, said a resolution had been prepared for transmission to Borough Councils regarding the granting of poison-licences which stated that in the Metropolis no additional facilities are necessary or desirable in the interests of the public. The consideration of the resolution was, however, deferred to a future meeting. Mr. J. C. Pentney then read a paper on the new Act. It was decided to hold the annual dinner in March.

Canadian Formulary.

THE Formulary Committee of the Canadian Pharmaceutical Association is preparing a new edition of the Formulary, and the "Canadian Pharmaceutical Journal" states that the following six formulas have been recommended for adoption by the Pharmacy Committee of the Toronto Drug Section:

Linimentum Methylatis Compositum.

Compound Liniment of Salicylate of Methyl.

Linimentum Betulae Compositum.

Menthol	...	...	1 oz.
Chloral hydrate	...	...	1 oz.
Alcohol	...	...	2 oz.
Tr. Indian hemp	...	...	2 oz.
Essential oil camphor	...	...	4 oz.
Methyl salicylate, sufficient to make	...	...	20 fld. oz.

Mix.

[This is the Glasgow Association formula as printed in P.F., p. 916.]

Liquor Petrolatum Compositum.

Compound Liquid Petrolatum.

Blandine Compound.

Camphor	...	...	30 grains
Menthol	...	...	8 grains
Thymol	...	...	4 grains
Eucalyptol	...	...	8 grains
Oil wintergreen	...	...	30 grains
Hydrastine	...	...	½ grain
Liquid petrolatum, white sufficient to make	...	...	20 fld. oz.

Mix.

Vinum Olei Morrhuae cum Ferri et Creosote Aromaticus.

Aromatic Wine of Cod-liver Oil with Iron and Creosote.

Morrhual	...	...	64 grains
Fld. extract licorice	...	...	1 fld. oz.
Glycerin	...	...	1½ fld. oz.
Tr. iron citro-chloride	...	...	256 minims
Creosote	...	...	64 minims
Syr. wild cherry	...	...	4 fld. oz.
Talcum	...	...	1 oz.
Sherry wine (Canadian) sufficient to make	...	...	16 fld. oz.

Mix morrhual and creosote and rub in a mortar with the talcum. Add the glycerin with trituration, then the remainder of ingredients which have been previously mixed together. Allow the mixture to stand forty-eight hours, then filter through paper, adding the sherry wine sufficient to make up to 16 fl. oz.

Unguentum Mentholis Compositus.

Compound Menthol Ointment.

Balm Analgesic.

Chloral hydras	...	...	40 grains
Menthol	...	...	80 grains
Oil wintergreen	...	...	80 grains
Adeps lanæ hydrosus	...	...	1 oz. av.
Petrolatum alba, a sufficient quantity to produce	...	...	4 oz. av.

Liquefy lanoline and white petrolatum by aid of gentle heat. Dissolve chloral and menthol in oil of wintergreen and stir all together until cool.

Unguentum Zinci Carbonatis Compositus.

Zinc carbonate	...	...	80 grains
Salicylic acid	...	...	10 grains
Lanoline	...	...	80 grains
Petrolatum, white	...	...	4 drachms
Benzoated lard to make	...	...	1 oz.

Syrupus Sulphatis Compositum.

Compound Syrup of Sulphate of Magnesium Iron and Manganese.

Magnesium sulphate	...	...	120 grains
Iron sulphate	...	...	4 grs.
Manganese sulphate	...	...	2 grs.
Dil. sulphuric acid	...	...	20 minims
Liquor carmini C.F.	...	...	5 minims
Lemon syr. B.P. sufficient to make	...	...	1 fld. oz.

M.S.A.

We print the formulas as they are given in our contemporary and, apparently, by the Toronto Committee, without attempting to correct the Latin inaccuracies in titles, and the mixture of English and Latin for ingredients.

SITUATIONS WANTED *continued*

RETAIL.

UNQUALIFIED; tall; 22; abstainer; town or country. C/o Owen, Llewellyn Street, Pontygraith.

LADY Dispenser; qualified; Locum or permanency. "L., 76 Bedford Road, Ilford, Essex.

JUNIOR; aged 20; disengaged; outdoors preferred. Aldrich, 2 Brunswick Terrace, Cambridge.

LADY Dispenser, experienced, qualified, requires employment any capacity. 54 Penshurst Road, Hackney.

ASSISTANT; 30; good all-round experience; disengaged. "E., 36 Emsworth Road, Shirley, Southampton.

LADY; unqualified; Dispensing or Retail; whole or part time. Edwardes, Staplehurst Road, Hither Green.

MANAGER; qualified; elderly; active; best varied experience. "B., 11 Boutflower Road, Battersea, S.W.

LADY Dispenser; qualified; 5 years' experience in Wholesale and Dispensary work. 124/25, Office of this Paper.

JUNIOR; 4½ years' experience; aged 18½; Dispensing, Photography; trustworthy. 1 Leicester Street, Leamington.

ASSISTANT; 20; high-class Dispensing experience, Photography; good Counterman. Collier, c/o Ruff, Chemist, Whitby.

DISPENSER to Doctor and Bookkeeper; 7 years' experience; excellent references; 21. Frank, 5 Parade, Cowes, I.W.

MANAGER-Senior; 35; qualified; disengaged; last reference 3½ years. "Photo," 87 Lower Bank Road, Fulwood, Preston.

DISENGAGED; unqualified; sound up-to-date experience; pushing Salesman. "Locum," 146 Philip Street, Newcastle-on-Tyne.

ASSISTANT; 26; unqualified; energetic and reliable; 9 years' experience; Photography. Bradbury, Barnt Green, Birmingham.

ASSISTANT, unqualified Senior; first-class Dispensing and Counter experience; excellent references. Bennett, 45 Alpe Street, Ipswich.

ASSISTANT, first-class reference, 9 years' experience, speaking several languages, desires permanency. "F. C. J." (125/37), Office of this Paper.

JUNIOR; 18; tall; disengaged; Dispensing (slight knowledge), Photography; good Counter experience; highest reference; in or out doors. 124/8, Office of this Paper.

MANAGER of one or more large Stores; now holding similar position; reasonable salary required; highest references. Write, "Chemist," 157 Evington Road, Leicester.

JUNIOR Assistant; 22; first-class Dispensing and Photographic experience; Birmingham district preferred; outdoors. "Rhei," Viola Cottage, Roden Avenue, Kidderminster.

QUALIFIED (26), first-class Dispensing, Retail, Photographic experience, desires temporary engagement for about 3 months; Locum entertained. Lewis, Ardwyn, Fishguard.

ASSISTANT Manager; aged 36; unqualified; married; experienced; at liberty; permanency in Midlands or South desired. Address, G. D. North, 7 Kensington Crescent, W.

FULLY-QUALIFIED, energetic man desires position as Manager; wide experience; country business preferred; married; excellent testimonials. "C., 1 Newman Street, London, W.

CHEMIST (by examination and on Dental Register) requires situation as Manager or would join practical Dentist; Lancashire preferred. Address, "A. B." (119/13), Office of this Paper.

MANAGER; preferable view succession or buy small business for cash; all-round experience, London and Coast; abstainer; 30; disengaged. "M.P.S.," 195 Kettering Road, Northampton.

UNQUALIFIED; 22; 5 ft. 10 in.; abstainer; over 6 years' experience; reliable Dispenser; Photography; French; excellent reference; disengaged January 23. Mapson, Torre Pharmacy, Torquay.

GERMAN Medicinal Druggist, aged 23 years, with excellent references, seeks situation at once; would work at first as volunteer in order to improve his knowledge of the English language. Address, Albin Krieger, Emden, Norderthorstr. 20, Germany.

JUNIOR; good experience and references. E. Nevison, 25 Barker Terrace, South Shields.

QUALIFIED seeks few months' experience in Optics. "Chemist," 92 Worting Road, Basingstoke.

DISPENSER; Doctor; Wholesale or part-time Retail; 22; 5 years. "Dioniu," 38 Camberwell Road.

MANAGER; qualified; married; 36; permanency. "Chemist," 35 St. John's Park, Holloway, N.

LOCUM; 27; qualified; abstainer; recommended; experienced. "Statim," 61 Bell Street, Oldham.

SENIOR or Manager; qualified; disengaged; experienced; reliable. Howard, 1 Park Terrace, Cambridge.

JUNIOR; 23; Dispensing, Photo, and Counter; part-time preferred. Pugh, 14 Thornhill Square, N.

UNQUALIFIED; 27; country, Cornwall preferred; married. "Rhei," c/o P.O., Launceston, Cornwall.

QUALIFIED; 24; good experience; Manager or Senior. E. Siddall, c/o Miller & Co., Chemists, Tunbridge Wells.

PART-TIME; mornings preferred; any capacity; whole Saturdays. "Omnium," 35 Market Street, Paddington, W.

MANAGER; 40; qualified; energetic; Prescriber; tall; good references. Longman, 81 Claude Road, Cardiff.

ASSISTANT; active; disengaged; references; 15 years' experience. Fawcett, "Blencogo," Dinarth Road, Colwyn Bay.

COMPETENT Assistant; 27; best experience; Dispensing, Counter, Photography. D. Mountford, Shavington, Crewe.

JUNIOR; 20; 5 ft. 9½ in.; 6 years' experience in Dispensing, Counter, and Photography. A. Abse, 28 Adare Street, Bridgend, Glam.

UNQUALIFIED; first-class experience, Dispensing, Prescribing, Photographic; aged 26. "Aspirin," Hyslop, Ltd., Chemists, Bury.

DISENGAGED; competent Assistant; references; experienced. "F. T.," 12 Grosvenor Street, Heaton Park, Prestwich, Manchester.

ASSISTANT (35) or Dispenser to Doctor; married; unqualified; good references. "E. L. B.," 30 Embden Street, Hulme, Manchester.

JUNIOR; 22; tall; good appearance; 3½ years' experience; time study. G. T. Almeroth, Egremont House, Heigham Road, East Ham, Essex.

QUALIFIED; 23; disengaged; Dispensing and Photography; London preferred; excellent references. Mitchell, 25 Francis Street, Leeds.

YOUTH; two years and three months' experience; good references; time for study; no salary if indoors; 15s. 6d. outdoors. Apply, 127/29, Office of this Paper.

BRIGHTON.—Wanted, situation as Junior in good-class business; excellent South Coast experience; tall, gentlemanly, reliable, and obliging. 127/12, Office of this Paper.

JUNIOR (21), in good-class business; 3½ years' good experience; disengaged; good references; West of England preferred. Reed, Linhay, Westonzoyland, Bridgwater.

A. G. GLASSPOOL, M.P.S., strongly recommends Mr. F. W. Cooper as a strictly honest, punctual, and reliable Assistant in every respect; unqualified. Apply to 131/8, Office of this Paper.

ASSISTANT; 9 years' first-class experience (West-end and health resort) in Dispensing and Counter work; tall, good appearance and address; neat, quick, and accurate; 25. Ruxton Byatt, 51 High Holborn, W.C.

BY active, competent man with varied experience of good-class country Family business, as Assistant or Dispenser to doctor, hospital, or institute; highly recommended by present and late employers; aged 47; married; unqualified. 124/35, Office of this Paper.

JOHN PYE is now disengaged. The old address, 25 Josephine Avenue, Brixton Hill, S.W.

QUALIFIED; 26; town and country experience; good Dispenser; disengaged. 126/15, Office of this Paper.

IMPROVER; aged 21; passed Prelim.; 3 years' experience; small salary; outdoors. 127/5, Office of this Paper.

ASSISTANT (26), tall, best experience, desires good situation. Haigh, Helme, Leigh, Meltham, Huddersfield.

MANAGER or Assistant; outdoors; West-end experience; qualified. "Codex," 13 Trafalgar Square, Chelsea.

TRUSTWORTHY, capable; tectotaler; 5 ft. 9 in.; Manager or Senior; Minor, F.S.M.C. 12 Logan Road, Bristol.

ASSISTANT; 22; disengaged; unqualified; good experiences and references; very reliable. 5 Hamilton Terrace, Leeds.

LADY Dispenser and Bookkeeper; qualified; Locum or permanency; good testimonials; experienced. 127/16, Office of this Paper.

YOUNG Chemist, having sold business, seeks Management of small concern; view succession, on easy terms. 7 Gladstone Street, Walsall.

MANAGER, or responsible position; qualified; temporary or permanent; excellent experience; moderate salary. "X," 5 Norfolk Road, W.

MANAGER; qualified; experienced; Optics, Prescriber; good reference; London or near. "Disengaged" (127/31), Office of this Paper.

QUALIFIED; 29; abstainer; early engagement Manager or Senior; tall; good experience. "Salol" (127/19), Office of this Paper.

MANAGER; Drug-stores; unqualified; 31; tall; married; good experience; Lancashire preferred. "Veronal" (128/11), Office of this Paper.

QUALIFIED; Manager; 28; Optical, Photographic; good experience; South or West of England preferred. Apply, 127/27, Office of this Paper.

MANAGER or Senior; 37; high-class City and West-end experience; excellent references; disengaged; tall; active. 128/4, Office of this Paper.

QUALIFIED; 14 years' experience; Dispensing, Prescriber, Photography; provinces preferred; good references. 128/14, Office of this Paper.

INDIA or Ceylon; qualified, married (29), abstainer, seeks post; permanency or view to partnership; good Retail and Hospital experience. 128/16, Office of this Paper.

BRANCH Manager or outdoor Assistant; 34; Extractor, Prescriber; London and provincial experience; references. Thomas, Belle Vue Terrace, Aberayron.

ASSISTANT; 27; first-class Retail, Dispensing, and Photographic; Extractor; highest references; disengaged. "Statim" (126/202), Office of this Paper.

MANAGERSHIP; with view to succession preferred; qualified; first-class experience; highest references; well educated; disengaged shortly. 128/8, Office of this Paper.

YOUNG lady desires situation; used to Counter work; good experience; occasionally had sole charge; Yorkshire or North preferred. "E. S.," 66 Clarence Street, York.

MANCHESTER District.—Junior; 20; tall; 5 years' experience; outdoors; good high-class references; Dispensing, Counter, and Photography. Meadows, 17 Ryecroft Road, Stretford.

PART-TIME Junior; 4½ years' experience; Dispensing, Photography; good Window-dresser; outdoors; at liberty; speaks French. Dodsley, 47 Shrewsbury Road, Birkenhead.

MANAGER; middle aged and active; town or country; exceptional experience; business with scope for increase and improvement entertained on mutual conditions. "M.P.S." (126/21), Office of this Paper.

37; Assistant or Management; unqualified; London or provinces; competent, trustworthy, obliging; salary not so much an object as comfortable berth; permanency preferred; good references. "Statim" (127/32), Office of this Paper.

JUNIOR; 4 years' experience; indoors. "Cassius," 27 Belvoir Street, Leicester.

PART-TIME; evenings from 7, Saturdays 3. "Qualified," 51a Morat Street, S.W.

MANAGER or Assistant; qualified; aged 49; immediate. "W.," 142 Pentonville Road, N.

JUNIOR; 20; Retail, Dispensing, Photography. Harris, 76 Mortimer Street, Herne Bay, Kent.

JUNIOR or Improver; 22; 2 years in high-class Dispensing business. Allman, c/o Davies & John, Bath.

MANAGER or Locum; disengaged for next four months; 30; qualified. "Ilex," 63 Maple Street, W.

PART-TIME berth in London Dispensing business desired by Junior; 23. Smith, 29 Nelson Square, S.E.

RELIABLE Assistant; outdoors; varied experience; unqualified. "Statim," 129 Russell Avenue, Wood Green.

IMPROVER; 20; knowledge Photography; Birmingham district preferred. "S. C.," 94 Regent Street, Smethwick.

QUALIFIED; 25; Dispensing, Photography; disengaged; good references. Wesley, 4 South Parade, Penzance.

ASSISTANT; good Dispensing and Retail; London and South Coast. H. E. Ruffhead, High Street, Olney, Bucks.

UNQUALIFIED; 23; good-class Photography, Dispensing; disengaged. Harris, 12 Godfrey Buildings, Thrawl Street.

UNQUALIFIED; Dispensing, Counter; 27; good references. "W. H. H.," 21 Camberwell New Road, Kennington.

EXPERIENCED Locum; disengaged; 50; day or week; highly recommended. "Chemist," 100 Boston Road, Hanwell, W.

LOCUM or temporary Manager; London preferred; qualified; first-class experience. "O. D." (175/8), Office of this Paper.

UNQUALIFIED; whole or part time; good Dispensing experience; London, S.W., or suburbs. 126/26, Office of this Paper.

ASSISTANT; disengaged; medium class; energetic; capable Extractor; good experience. "Meta," 82 Robert Street, Regent's Park, N.W.

BIRMINGHAM.—Assistant; aged 31; married; good all-round experience; Wholesale and Retail. H. J. Cope, 482 Stratford Road, Sparkhill.

MANAGER, Assistant, or Locum; qualified; married; abstainer; Extractor, Prescriber; disengaged February 11. 24 Caldmore Green, Walsall.

JUNIOR (21), tall, seeks situation in good Dispensing business; town or country; good experience; disengaged February 1. F. O. Haslam, Masbro', Rotherham.

ASSISTANT; unqualified; 22; 5½ years' experience; excellent references; Photography. Apply, Willoughby, 9 Springbank, Blaenau Gwent, Abertillery, Mon.

QUALIFIED, experienced Manager, Extractor, seeks permanent berth; Locum entertained; terms moderate. "Statim," 48 Ferrer's Road, Streatham, S.W.

QUALIFIED; 25; excellent reference; accustomed to good-class business; reliable; abstainer; disengaged; North preferred. Brown, Maison Dieu, Richmond, Yorks.

EXPERIENCED Assistant; unqualified; 25; City, provincial, and West-end experience; capable manager; good references. S. William Barter, Albany Road, Leighton Buzzard, Beds.

MANAGER, Locum, Assistant; qualified; exceptionally good all-round experience; thoroughly reliable and trustworthy; excellent references. "Aspirin," 87 Hayter Road, Brixton, S.W.

QUALIFIED Dispenser; 26; permanent institution preferred; good reference and experience; small salary if institution; indoors or outdoors. "M.P.S.," 18 Kitson Road, Camberwell.

ASSISTANT; 26; high-class Dispensing and General experience, London and provincial; disengaged. For references and particulars address, "C.," 2 Fairlawn Buildings, Weston-super-Mare.

JUNIOR (22), well experienced, reading for Church, seeks berth (London) where possible leave about 6.30 P.M. to attend college; disengaged; interview Monday; several years, but temporary post accepted; salary moderate. Mills, Ashton House, Bath.

SITUATIONS WANTED *(continued).*

PART TIME; qualified; accustomed to take charge; 24. Clement, 83 Clapham Road, S.W.

QUALIFIED (29) requires berth in business with view to succession. "Collis" (131/17), Office of this Paper.

?—Does any London Chemist require unqualified Part-time man? worker; reasonable terms. 130/37, Office of this Paper.

DISPENSING, Counter, Photographie expert; unqualified; 27; disengaged. "W." 5 Victoria Buildings, Beckenham.

MANAGER disengaged; Locum or permanency; work up branch; unqualified; Extractor; 15 years' experience. 456 Camden Road, Holloway, N. Telephone 5176 North.

ASSISTANT (22), with high-class Dispensing and Photographic experience; good Counterman; part time or full; near schools preferred. Cornish, 57 Railway Street, Southport.

UNQUALIFIED; 28; married; 11 years' first-class experience, Dispensing, Counter, Photography; excellent references; permanency. "F. H.," 32a Little Ealing Lane, South Ealing, W.

UNQUALIFIED; aged 30; good Counter, Dispensing, and Photographic; capable of management; abstainer; would entertain Locum work; disengaged. "E." 18 Sainfoin Road, Balham, S.W.

BRANCH Manager; qualified; single; tall; good references; indoors or outdoors; used to good-class business; Photography; disengaged January 22nd. "S.," 19 Railway Terrace, Wembley.

GENTLEMAN (young), experienced in Management, Advertising, and placing Patent Medicines, requires engagement 4 days or every half-day weekly. "E. W.," 70 Tollington Road, Holloway.

A LITTLE extra employment by keeping Doctor's or Chemist's books or secretarial work; 2 or 3 evenings a week; City, West-end, or suburbs south of London; excellent references and experience. 130/36, Office of this Paper.

MANAGERSHIP by qualified English and American Chemist; exceptional London and provincial high-class and Store experience; could control large business; good buyer; undeniable references and recommendations; life abstainer. "Security," 89 Western Road, Brighton.

DISPENSER and Bookkeeper, qualified (26), teetotaler, disengaged soon, desires re-engagement to firm of Surgeons, Doctor, Chemist, Institution; good experience; excellent testimonials; references from same; state salary; interview preferred if in or near London. "Dispenser," 252 London Road, Croydon.

WHOLESALE.

SITUATION required; 11 years' experience Retail and Wholesale; good references; aged 30. 129/2, Office of this Paper.

REPRESENTATIVE; 27; experience in calling on Medical men; first-class references. "Statim" (126/22), Office of this Paper.

ADVERTISER, young, energetic, and trustworthy, desires berth in good London house. Address, "Folia" (125/39), Office of this Paper.

REPRESENTATIVE; Drugs, Tablets; orders awaiting good firm sound connection Midlands. Terms, "Energy" (128/25), Office of this Paper.

GENTLEMAN (aged 39), of good appearance and qualified Chemist, wishes to Represent a first-class Drug or Specialité house in West of England; salary and expenses. "Pax" (129/9), Office of this Paper.

WET Counter or Manufacturing Tinctures, Perfumes, Essences, etc.; 19 years' London experience; London or provinces. 131/2, Office of this Paper.

MANUFACTURERS open to participate in practical triple Window-dressing scheme, kindly communicate with Pierce, 10 Lunham Road, Upper Norwood, S.E.

WET Counter; 13 years' Wholesale and Retail experience; 28; highest references; disengaged February. "Aspirin," Rock Cottage, Roath Road, Portishead, Som.

QUALIFIED Chemist (aged 45) wishes engagement; Wholesale or Retail; good all-round experience and references; disengaged. Walker, 9 Praed Street, Paddington, W.

HANDY man; 10 years' Wholesale experience; subsequently travelled 7 years; no objection to part-time in warehouse and part outside; references right. "Duplex" (126/13), Office of this Paper.

YOUNG man (22), disengaged, requires situation; indoors; 7 years' experience with Chemical merchants; bookkeeping and general office work; also travelled; first-class references. 130/28, Office of this Paper.

ADVERTISER, good business experience, capable Accountant, requires engagement; Correspondence, Books, or general work; long references; salary moderate. Reply, "N. M." (118/20), Office of this Paper.

DRUG House on commission through the Midlands; advertiser Representing a Sundries House wishes for a Drug House in conjunction with same; can influence big trade for good firm. 124/14, Office of this Paper.

ADVERTISER, representing two well-known houses (Drugs and Optical) for India, would like to hear of another house desiring representing Photography, Perfumes, or any lines that would not clash. 126/31, Office of this Paper.

YOUNG gentleman, energetic and trustworthy, desires position with Wholesale house; first-class London and provincial experience; tall; good address; excellent references as to character and ability. "Codex" (130/15), Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, 30 Tranquil Vale, Blackheath, S.E. Telephone 81 Lee Green.

SHARES FOR SALE (free of commission, subject).—200 Camwal Ordinary, bid wanted; 10 Evans Lescher Preference, £5 2s.; 10 Meggeson Preference, 91s.; 100 Peak Frean Preference, 21s. 6d. x.d.; 100 Mazawattee Ordinary, 4s. 1½d.; 200 Darracq 10 per Cent. Preferred Ordinary, 16s. 6d., yield 12 per cent.; 50 Castner Kellner, 31s. 6d.; 100 Virol, 6s. 7½d.

WANTED (subject).—5 Camwal Debentures, £34 5s.; 80 J. Knight Ordinary, 22s.

List of shares for sale and wanted sent free on application. Bankers, London and County. Established 1898.

VERY FINE SET OF MAHOGANY SHOPFITTINGS.—As good as new and ready for immediate despatch: 16-ft. drug-fitting, mirror centre, pilasters with carved trusses and span rails, poison cupboard, etc.; 17-ft. mahogany serving-counter, glass cases in front and drawers behind; 6-ft. bent plate-glass counter-case; perfume case and desk; tower case, 3 ft. high by 2 ft. square; 10-ft. mahogany wallcase; handsome screen, with centre mirror down to ground and cases either side, with mirror backs and glass shelves; 75 guineas complete. **PHILIP JOSEPHS & SONS, LTD.**, 93 Old Street, Goswell Road, London, E.C.

INCREASE YOUR BUSINESS.—The new monthly "BUSINESS BUILDING." The retailers' help in all advertising matters. Specimen copy post free. Full of hints and suggestions; special articles on preparation of handbills, etc. Free Block to new subscribers. Annual subscription, 2s. 6d. post free. B. Whitworth Hird, Ltd., 1 Southampton Row, London, W.C.

POISONS AND PHARMACY ACT, 1908.—Large Card to hang in Pharmacy, showing at a glance the preparations which come in each part of the new Schedule, and other new conditions affecting Pharmacists; post free 6d. Third Edition. Evans, Gadd & Co., Ltd., Bristol and Exeter.

APPOINTMENTS VACANT.—The Directors of the **IMPERIAL ACCIDENT INSURANCE CO., LTD.**, established 1878, invite applications for Agencies in unrepresented districts. Departments: Personal Accident, Employers' Liability for Accidents to Servants and Workpeople, Carriage, Motor and Driving Accidents, Burglary and Plate Glass, Horse and Cattle Insurance; liberal terms. Address, Agency Manager, 17 Pall Mall East, London, S.W.

THIS IS YOUR CHANCE.—We have just cleared the complete set of Fittings of a Pharmacy 18 ft. by 14 ft.; all are splendidly made and in first-class condition. Write for particulars, or call and inspect; going cheap. RUDDUCK & CO., 262 OLD STREET, E.C.

TO Apprentices, Juniors, etc.—If you wish to pass the Preliminary quickly and with little trouble, write to Mr. Charles Harker, who will coach you by post; thorough systematic teaching; numerous successes in 3 and 6 months; special attention given to those of neglected education; 76 per cent. recent successes; terms very moderate. Charles Harker, 239 Chapter Road, Cricklewood, London, N.W.

CHEMIST 16-ft. glass-fronted counter, mahogany top, 3 ft. wide, £13, bargain; mahogany bent plate-glass counter-cases, 4 ft., 5 ft., 6 ft. dispensing-screens, wall-cases, drug-fittings; cheap to clear; cheapest house in the trade for shop-fronts, alterations, window-enclosures; estimates free. H. Mills, Up-to-date Chemists' Shop Fitter, Shop-front Builder, Steam Works, 163 and 165 Old Street, London, E.C.

THAT'S THE BEST OF SCOTSMEN—

Whilst they are the hardest clients to get bold of, they so carefully follow my ideas once they have paid for them, that they write like this: "Business is still improving. I cannot complain of results of following your ideas. You may depend on my renewing my fee when the time comes round." Free booklet from offices below; interviews 100 miles from Edinburgh free if booked for year by writing or wiring me, POST OFFICE, Edinburgh, next Monday morning 9 a.m., or 12 noon Glasgow.

BERNARD SLACK, Princes Chambers, WOLVERHAMPTON.

McQUEEN'S System of Accounts for Chemists; sixth edition; knowledge of bookkeeping unnecessary; works out gross and net profits; balance sheet, and income tax statement with guaranteed certainty; absolutely the last word in simple, comprehensive, and effective bookkeeping. Particulars and testimonials free, McQueen & Co., Moat Road, E., Leicester.

TO TRUSTEES, EXECUTORS AND OTHERS.

Stocks Sold or Purchased for Cash.

FRYER, COOPER & CO.

3 Redcross St., Fore St., E.C.

Chemists' Auctioneers and Valuers.

Goods realised on Vendors' a/c or Stocks purchased for immediate Cash. Distance no object. Money advanced if desired.

Chemists' Printing.

We are specialists in Chemists' Printing, and can offer you the best and most attractive work. The foremost Chemists are our constant customers; can we serve you? Write for samples of Leaflets, Circulars, Booklets, &c., and quotations for your work.

JONES & ADNITT, The Chemists' Printers, HEREFORD. Telephone: Nat. 189.

Exchange Column—Bargains.

TERMS.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No Advertisement inserted for less than 6d.

FOR DISPOSAL.

APPARATUS.

FRECK tablet-machine for sale; dies 9/32-3/8 and 1/2 in.; in good condition; price £1 1s. COMYNS, Carshalton.

BOOKS AND PERIODICALS.

"CHEMIST AND DRUGGIST" and "Pharmaceutical Journal," posted Saturdays, together or separate; what offers? MARKHAM, Chemist, Reigate.

"MEDICAL DIRECTORY," 1908; very little used; quite clean. STICKLAND & Co., Pharmaceutical Chemists, 23 Cromwell Place, South Kensington.

DENTAL.

SIX pairs of nickel-plated tooth forceps; £1. HESLITINE, 46 Derrington Street, Hull.

DENTAL-CHAIR, cost £15; dental-engine, lathe, impression-trays; three Maw's carbos; can be seen, BAILEY, Chemist, Blackheath.

DENTAL chair, iron, plush-covered, rising seat, falling back, cost £12; S. S. White fountain spittoon (nickel-plated) attached, cost £12; sacrifice both for £10. CULLWICK, North Street, Wolverhampton.

DRUGS AND CHEMICALS.

WHAT offers for 2 or 3 lb. ol. bergamot. super.? E. BING & SON, Canterbury.

OFFERS wanted.—2 1-lb. ess. lemon, 1-lb. bergamot, 1/2-lb. pot. iodid. HANGER, Melton Road, Leicester.

OFFERS wanted for 28 oz. opium elect.; 5 lb. Jakson's ol. lavand., 5 years old. RICHARDSON & Co., Blackpool.

BEST offer.—1 oz. each chloretone, salophen, salocoll, tetronal, tannalbin, helmitol, hydrastin, papain, phenalgin; 2 oz. each vanilla, urethane, ammonol. STEAD, Chemist, 411 Edgware Road, W.

FORMULÆ.

EMBROCATION; 10d. per gal.; thick, creamy, and unseparable; send 2s. 6d. for formula. EVERITT, 131 Forest Road, Loughton, Essex.

FORMULA for sale.—Boot-polishes; black, brown, cream. FRANCE, 42 Vartry Road, London, N.

FORMULÆ for Sale; boot polishes, inks, and dressings; original, not book formulæ. W. HAMILTON, 97 Clarence Avenue, Northampton.

SHARES.

SHARES for Sale. See p. 66.

SHOP FITTINGS.

O'BRIEN'S voucher check-till; used two years; cost £8 18s. 6d.; price £5 18s. 6d. "VOUCHER" (126/37), Office of this Paper.

MISCELLANEOUS.

A FEW dozen second-hand syphons for sale. 14 Crown Road, St. Margaret's-on-Thames.

1 DOZ. Javal, trial size; also rubber air-cushion, 16 in.; quite new. WATSON, 409 Norwood Road, S.E.

SOUTHALL'S materia medica, collection D; cost £2 15s.; clean, been little used; what offers? GREENSILL, Chemist, South Norhampton, Alfreton.

BRITISH soda-fountain; only used two seasons; cost over £40; will take half price to immediate purchaser. Full particulars, 120/31, Office of this Paper.

WANTED.

DENTAL chair. Particulars, DALMAIN, Pimlico Walk, Hoxton, London.

PATENTS.—Clean, quick sellers; good prices given. KING, 6 St. Paul's Road, Blackpool.

BOOKS for the Minor. State particulars and price, "STUDENT," 11 High Street, Gosport.

THE C. & D. for December 22, 1906: "W. B.," "Sunnyside," Victoria Road, Sutton Coldfield.

"NEW Commercial Plants and Drugs," Nos. 1 to 12, published by Christy, 1382. 119/8, Office of this Paper.

THREE 2-gal. swan-necked carbos; state height and lowest price; also 6 2-lb. jujube jars. EVANS, Chemist, Margate.

MINOR, Major, Chemists' books.—Send prepaid for valuation; cash offers per return. GOWER, Bookseller, Waterloo, Liverpool.

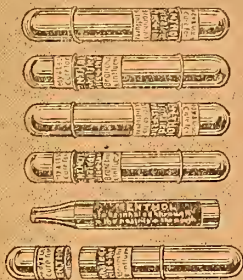
WILL exchange 1908 and 1909 C. & D. Diaries, unsoiled, for a recent edition of Squire's "Companion"; cash adjustment. THE WA KEENY Co., Jarrow.

MARSHALLS', LTD., 46-47, COLEBROOKE ROW, N.

WORKS:—

Telephone 833 CITY.

MENTHOL INHALER For INFLUENZA.



2/6 per doz. Unfiled Inhalers, 1/6 doz.

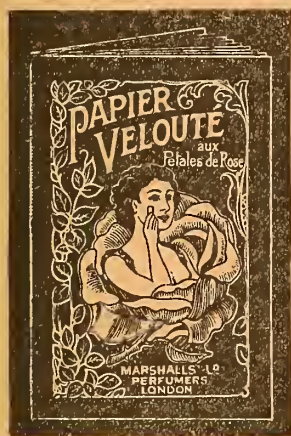
These are Natural Floral Oils, made by steeping the Flowers in an odourless white oil until it is saturated.

The results obtained by this method of extraction are beautifully and delicately perfumed oils, which are a brilliant and delicious dressing for the Hair or Beard.

HAILES ANTIQUES AUX FLEURS NATURELLES.



5/- per doz.



Powder Leaflets, 1/6, 2/6, 4/6

TAILOR'S PAD CLOTH CLEANER



For Removing Grease, Paint, Spots or Stains from Dress of any kind without injury



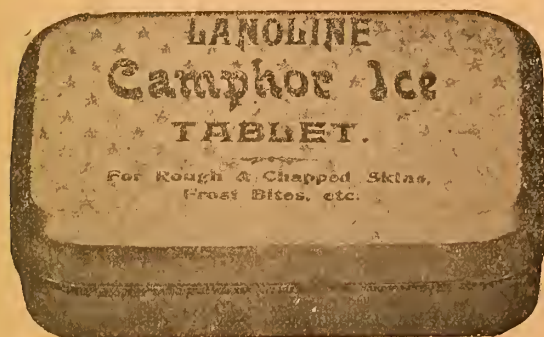
18/- per gross.



1 dozen in box, 3/6



3/6 and 5/6 dozen.



SEASONABLE COUNTER SPECIALITY.

Also made in EUCALYPTUS and ALMOND. 6d. size, 30/- gross. 3d. size, 15/- gross.



PILE OINTMENT.

An efficacious preparation, prepared with witch hazel, neatly packed in 1 oz. tubes, cartonel, complete with tubes, 7/6 doz.; spare tubes, 3/- doz.



COLLAPSIBLE TUBES OF ALL KINDS.

Adeps Lanæ, Anhydrous, Odourless, 10d. per lb.

St. John's Lodge of Freemasons, and for thirty-two years its Secretary. He was a keen curler, and a liberal patron of other local sports. Two years ago he was appointed by the Duke of Atholl as Baron Bailie of Dunkeld, and he discharged the duties of that office with sound judgment and to the satisfaction of the townsmen. Mr. Macdonald is survived by a widow and a son and daughter. The funeral took place on Saturday and was very largely attended, among those present being the Marquis of Tullibardine and the Duke of Atholl.

Recent Wills.

The dates in parentheses refer to the issue of "The Chemist and Druggist" in which the deaths of the testators were reported.

MR. SYDNEY WILSON WALLIS, Ph.C., Bournemouth, left estate valued at 540*l.* 19*s.* 10*d.* gross, with net personality 33*l.* 14*s.* 8*d.* (December 19, 1908, p. 932.)

MR. JOHN BENZ WINDER, chemical manufacturer, of the firm of Messrs. Joseph Singleton & Co., Eyre Street, Birmingham, who died on December 18 last, left estate of the gross value of 8,552*l.* 13*s.* 5*d.*, with net personality 7,471*l.* 17*s.* 4*d.*

SIR JOSIAS CHRISTOPHER GAMBLE, Bart., St Helens, a director of the United Alkali Co., Ltd., left estate of the gross value of 276,760*l.* 7*s.* 3*d.*, of which the net personality has been sworn at 264,538*l.* 3*s.* 11*d.* (October 3, 1908, p. 542.)

SIR HENRY ALFRED PITMAN, M.D., F.R.C.P., Enfield, Emeritus Registrar of the Royal College of Physicians, left estate of the gross value of 10,267*l.* 8*s.* 5*d.*, of which the net personality has been sworn at 1,426*l.* 11*s.* 2*d.* (November 14, 1908, p. 758.)

MR. RALPH WILLIAM MAILLARD, chemist and druggist, Whitely Bay, and formerly of Jarrow, left estate valued by the widow, Mrs. Jane Maillard, the sole executrix, at 2,793*l.* 12*s.* 5*d.* gross and 2,793*l.* 2*s.* 9*d.* net. (November 21, 1908, p. 784.)

MR. WILLIAM FREDERICK HAYDON, Ph.C., formerly Secretary of the Chemists' and Druggists' Trade Association of Great Britain, and afterwards Secretary of the Birmingham Chamber of Commerce and Exchange Buildings Co., Ltd., left estate of the gross value of 7,650*l.* 4*s.* 3*d.*, of which the net personality has been sworn at 6,646*l.* 6*s.* 2*d.* The beneficiaries under the will are his widow and daughters—Mabel, Florence, Frances, and Helen. (October 10, 1908, p. 578.)

Business Changes.

Properly authenticated business notices (not being advertisements) are inserted in this section free of charge if promptly communicated to the Editor.

BOOTS, LTD., will shortly open at the Tramway Terminus, Purley.

BOOTS, LTD., are opening a branch at Post Office Square, Beeston, Notts.

DR. B. A. O'FLYNN has opened a drug-store and surgery at Manorhamilton (co. Leitrim).

MESSRS. TURNER & Co. have relinquished the business at 435 Hackney Road, London, N.E.

THE INTERNATIONAL DRUG STORES have been opened at 521 Cambridge Road, Bethnal Green, London, E.

MESSRS. SMITH BROS. have taken over the business of Mr. W. Smart, chemist and druggist, 27 Aldgate, E.

MR. SNANCARROW has purchased the business of the Western Drug Stores, Ltd., 23 The Broadway, Southall.

MR. W. C. PHILLIPS, pharmaceutical chemist, formerly at South End, Croydon, has opened a pharmacy at Tadsworth, near Epsom.

MR. T. H. SEED, chemist and druggist, has removed from 36 to more commodious premises at 10 The Parade, Grove Green Road, Leytonstone.

MR. D. HYATT JENKINS, chemist and druggist, has purchased the business of Mr. M. D. Evans, chemist, Bute Street, Treherbert, Glam.

MR. G. CULLWICK, chemist and druggist, 171 Fulham Road, S.W., has recently opened additional premises at 4 Loampit Hill, Lewisham, London, S.E.

MESSRS. WILLIAM TOOGOOD, LTD., druggists' sundriesmen, have removed their warehouse, offices, and showroom to new premises at 71 Southwark Street, London, S.E.

NEEDHAMS, LTD., are shortly removing from 8 Corporation Street to New Street, Birmingham. The new premises are just round the corner from their present address.

MR. J. ALLEN, chemist and druggist, late of 8 North Street, Bedminster, Bristol, has purchased the business from Mr. C. H. Chadwick, Clarence Park, Weston-super-Mare.

MESSRS. LEWIS & BURROWS, LTD., 212 High Road, Kilburn, London, N.W., are removing to 229 in the same thoroughfare, where they have taken over the business of Mr. Pelham C. Young, chemist.

MR. TONY J. MAINETTY, of Smyrna, in announcing the death of Mr. André Icard, opium-merchant, states that he will continue the business under the style of André Icard, successeur Tony J. Mainetty.

MR. D. T. EVANS, chemist and druggist, High Street, Margate, and 30 Harbour Street, Ramsgate, has purchased the prescription-books of Mr. G. F. Spanton, chemist and druggist, 59 Queen Street, Ramsgate.

MESSRS. BURKETT, SHARP & Co., 10 and 11 Mincing Lane, E.C., announce that Mr. George Chambers, who has just terminated his twenty-one years' connection with the late firm of William Binnie & Co., will conduct his future business through them.

Personalities.

MR. A. LEIGHTON, chemist to Messrs. Cargills, Ltd., of Colombo, comes home by the s.s. *Borneo* on May 11.

MR. SYDNEY E. WHITE, who has been travelling in the West Indies during the last five years, has now returned to England.

MR. F. JACKS, chemist and druggist, High Street, Stone, Staffs, has been elected to the committee of the local Traders' Association.

MR. W. MASKEW, Ph.C., 26 Electric Parade, Clacton-on-Sea, has been appointed to the Committee of the local Traders' Association.

MR. H. C. GUNSTONE, President of the Oxford and District Chemists' Association, has been elected Hon. Sec. of the Oxford City Golf Club.

MR. SAMUEL RALPH ATKINS, J.P., ex-President of the Pharmaceutical Society, was sworn in as a county magistrate at the Wilts Quarter Sessions at Devizes on January 5.

ALDERMAN J. PHILLIPS, J.P., Ph.C., was elected Chairman of the Joint Committee to enforce the provisions of the Rivers Pollution Act, relative to the River Ribble, at a meeting held at the County Offices, Preston, on January 11.

MR. CHAS. F. EMERY, London manager of the Chesebrough Co., Ltd., sailed by the *Baltic* from Liverpool on Wednesday for a short business trip to the company's headquarters. Mrs. Emery accompanies him. They will put up at the Hôtel Columbia, New York City.

MR. ROBERT WALLACE, of Castle Douglas, who has been with Messrs. North & Rae, Ltd., chemists, Yokohama, since 1902, left there on December 19, 1908, by the R.M.S. *Monteagle*, for Scotland, via Canada, on a six-months' vacation. Mr. Wallace returns in June to take over the position of senior assistant to the firm.

THE new schools in Harwoods Road, Watford, are to be named the "Edward M. Chater Schools," in recognition of the long services to education of Mr. E. M. Chater, pharmaceutical chemist, who is in business at 129 High Street, and is Chairman of the School authority, and was a member of the old School Board from its formation. This is the first time such an honour has been paid to a local public man.

MR. LEWIS OUGH, Ph.C., F.C.S., was presented at the annual meeting of the Leicester Photographic Society last week with a handsome bookcase bearing an engraved plate, in recognition of his services to the Society. Mr. Ough has been Hon. Treasurer for nine years, and has acted as secretary at the last three exhibitions held by the Society. During his stewardship the funds have increased from a few pounds to well over 100*l.*

Trade Notes.

MESSRS. PAINE & Co., LTD., St. Neots, intimate in our advertisement pages that in spite of a disastrous fire at their mills, orders for malt-extract can be executed without delay.

THERMOGENE WINDOW-DISPLAYS.—The Thermogene Co., Hayward's Heath, Sussex, are offering facilities for those chemists who wish to make window-displays of Thermogene. The cold weather is the time for this. The offer is made in our advertisement pages.

PLASMON COCOA.—An extra bonus of 5 per cent. will be given on the net amount of all orders for Plasmon cocoa received during the last fortnight in this month. This announcement is made in an advertisement in this number by Plasmon, Ltd., 66A Farringdon Street, London, E.C.

CARLSBAD SPRUDEL-SALT is now on the P.A.T.A. list, the minimum selling-price to the public being 2s. a bottle. The wholesale prices are noted in the advertisement in this issue of Messrs. Ingram & Royle, Ltd., East Paul's Wharf, 26 Upper Thames Street, London, E.C. The company also call attention to the fact that this preparation is the only genuine natural Carlsbad salt.

BLAUD'S PILLS.—The Standard Tablet and Pill Co., Brighton, are sending out Bland's pills in a new style of package. A gross of the pills is packed in a direct square bottle and enclosed in a dark-grey carton. The pills have a transparent coating which shows up the green colour of the mass, which is prepared in such a way as to retain the ferrous carbonate permanently unoxidised. The packages as described cost 2s. 9d. per dozen, and the company offer to send a sample to any of our subscribers on receipt of business-card.

NEW CATALOGUES.—Messrs. Ayrton, Saunders & Co., Ltd., Liverpool, send us copies of their three price-lists brought up to date. The lists are (1) monthly prices current, (2) druggists' sundries, (3) counter specialities, and seem to comprise all the articles contained in the stock of a chemist or used in connection with the business. Copies of the catalogues will be sent to any of our subscribers who apply to the company.

ZOROS, LTD., 32-34 Theobald's Road, London, W.C., has ready a remarkably clever show-card designed by Hassall. It is a glimpse of the deck of a steamer, showing a rolling sea and the ship in sympathy therewith. In the foreground sits the steward on a bucket, looking very sick, while behind are a jolly looking Darby and Joan, enjoying the trip—"thanks to Zotos." We understand that any chemist can get a copy of the card on application. It measures 12 in. long by 6 in. wide.

GUY'S TONIC.—The Guy's Tonic Co., 12 Buckingham Palace Road, London, S.W., are entering on a new advertising campaign to the public which is calculated to stimulate the sale of this tonic. One feature of the campaign is an offer to supply free samples, with which will be sent a copy of a new booklet entitled "The Territorial Army of the Blood." This and other particulars are told in the company's announcement in this issue, the object of the advertisement being to give chemists time to lay a sufficient supply to be able to meet all demands.

LACTIC-ACID BACILLI.—We have received a note regarding the culture of the lactic-acid bacilli, from Messrs. Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, London, E.C., bearing on the "British Medical Journal's" report (p. 100). The company inform us they are keeping a constant crop of the true Bulgarian bacillus growth going, and have been assisted in obtaining the right bacillus by Mr. Taptchileshtoff, Professor Metchnikoff, and three well-known London professors. Messrs. Oppenheimer further state that it is desirable that the culture should not be kept in stock for long, and on that account they desire the trade not to purchase supplies that cannot be disposed of in a reasonable time.

BOVRIL, LTD., Old Street, London, E.C., have now ready three new bonus photogravures. Two of them are of the popular type hitherto issued, one being Mr. Fred Morgan's

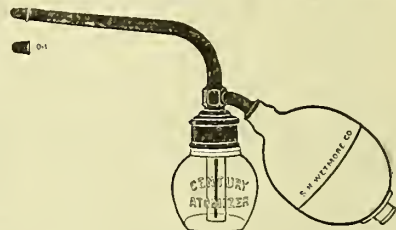
"My Boy" and the other Mr. Arthur J. Elsley's "The Huntsman's Pet," the latter including two happy looking children and a foxhound, with a puppy in the arms of the huntsman. The third picture is Mr. A. A. Dixon's striking picture entitled "The Sleeping Minstrel," which was exhibited in the Royal Academy last year and recalls in its conception and execution some of the earliest works of Millais. All the pictures are presented free to purchasers of Bovril who collect the coupons sent out with it. Chemists can get specimens from the company on application.

"CENTURY ATOMISERS."—The S. H. Wetmore Co., of New York, recently placed the agency for their sprays and atomisers

with Messrs. Thomas Christy & Co., Old Swan Lane, London, E.C., who inform us that they assist chemists in bringing the goods under

the notice of medical practitioners by supplying illustrated leaflets, showing shapes and prices. To those the chemist can affix his own name. The atomiser which we illustrate is No. 450, and may be used for aqueous or oily fluids, or even as a water-bath when ointments are sprayed. The inner tube shown is for the latter, or for using expensive spray-liquids, or for measured doses. We find the apparatus perfect in action. The makers give a guarantee with each atomiser, so that each one will be replaced or repaired free of charge if it does not work properly. Subscribers are invited to apply to Messrs. Christy for a list and other particulars.

LACTOBACILLINE.—The exceptional interest aroused by Professor Metchnikoff's observations on phagocytosis and its bearing upon the formation of intestinal toxins (see *C. & D.*, lxxiii., 753 and 786) has resulted in the demonstration that the lactic ferment retards the formation of the toxins by superseding undesirable bacillary fermentation with the lactic fermentation, the result being increase in the number of leucocytes. What is known as the sour-milk treatment is one of the immediate outcomes, and in this a fluid containing lactic ferments is used to prepare sour milk for use in cases where there is disturbance of the alimentary conditions and in other ailments. The preparation is made by "Le Ferment," 77 rue Denfert-Rochereau, Paris, along with an apparatus for making sour milk at home. Besides that method, the ferment in the form of tablets of lactobacilline is now being extensively prescribed and used. These tablets are swallowed like pills, along with something containing sugar, and the result is that the lactic ferment is set up in the alimentary canal. We have not lived long enough to tell whether the treatment prolongs life, but the material point of this note is that Lactobacilline is retailed in 4s. 6d. boxes each containing eight tubes of six tablets, which are becoming quite a familiar object at dinner tables, one being taken with the sweets dish. Messrs. Wilcox, Jozeau & Co., 49 Haymarket, London, S.W., are the agents in this country.



"TRUTH" says: From a note in the *Chemist and Druggist* it seems that I was in error in stating that the book called "Pharmaceutical Formulae" referred to in connection with Barkola is published by the Pharmaceutical Society. Obviously the Old Fort Chemical Company intended to refer to "Pharmaceutical Formulas," published by the *Chemist and Druggist*, while I took the reference to be to the list of chemists' proprietary medicines of which the prescriptions are gathered together in the "Pharmaceutical Journal Formulary." My contemporary also puts me right in another matter relating to the law in France and the United States in regard to proprietary medicines. In neither country is it necessary to have the formula on the label. In the United States all that is necessary is that the label shall bear the proportion of alcohol and certain narcotics if they are present in the medicine, while in France the label only requires to bear the number under which the prescription is officially registered.

Messina Oils.

Analysis of the Oils of Lemon, Orange, and Bergamot.

SHORTLY before the recent earthquake the Messina Chamber of Commerce published a series of notes by the official chemists, Drs. Berté and Romeo, on the analysis of these important oils, and we now give an abstract of the publication, which now has a pathetic as well as scientific interest:

The characters of pure oils are given as under:

<i>Lemon Oil.</i>	
Specific gravity at 15° C. ...	0.856 to 0.861
Optical rotation in 100 mm. tube at 20° C. ...	+58° to +66°
Initial boiling-point ...	175° C.
Fixed residue ...	2.0 to 3.5 per cent.
Total aldehydes by Souldaini and Berté's method ...	6.5 to 7.5 per cent.
Citral by Romeo's method ...	4.0 to 5.6 per cent.

The latter method consists in titrating the alkali liberated in contact with sodium sulphite in presence of potassium bisulphite. The solution is prepared as follows:

400 grams of crystallised sodium sulphite is dissolved in a litre of water and 160 c.c. of saturated solution of potassium bisulphite added. The solution is standardised with semi-normal potash, using rosolic acid solution; 5 c.c. of the oil accurately weighed is heated with 25 c.c. of this solution in a water bath for forty-five minutes with continuous agitation. It is then titrated with semi-normal potash and the figure obtained subtracted from the number of c.c. required to neutralise 25 c.c. of the solution. The percentage of citral is then calculated from the formula

Per cent. citral $\frac{d \times 2.533}{p}$ where d = number of c.c. semi-normal alkali

liberated and p = weight of oil taken.

Drs. Berté and Romeo, commenting on the characters and tests given in the United States Pharmacopœia, say that the minimum limit for specific gravity at 25° C. should be 0.849, and the minimum figure for optical rotation +58°. As regards the difference in optical rotation of the first 10 per cent. distillate and that of the original oil, the limit of 2° should be extended to 4° or 5°. Drs. Berté and Romeo did not get satisfactory results with the method given for the determination of citral owing to the difficulty of observing the neutral point in the titration.

Oil of Sweet Orange.

Specific gravity at 15° C. ...	0.847 to 0.852
Optical rotation in 100 mm. tube ...	+96° to +98° at 20° C.
Initial boiling-point ...	176°–177° C.

The rotation of the first 50-per-cent. distillate should be at least 1° 30' above that of the original oil.

Oil of Bitter Orange.

Specific gravity at 15° C. ...	0.852 to 0.856
Optical rotation in 100 mm. tube ...	+88° to +96° at 20° C.

If 20 c.c. is distilled and 10 c.c. collected, the rotation of the distillate should be at least 3° higher than that of the oil. When distilled under reduced pressure the increase usually amounts to 5°.

Oil of Mandarin Orange.

Specific gravity at 15° C. ...	0.854 to 0.858
Optical rotation in 100 mm. tube ...	+67° to +73°
Initial boiling-point ...	176°–177° C.

The first 50 per cent. distilled should have a rotation at least 3° higher than that of the oil itself.

Oil of Bergamot.

Specific gravity at 15° C. ...	0.880 to 0.887
Optical rotation ...	+7° to +25° (but usually +10° to +20°)
Esters (calculated as linalyl acetate) ...	33 to 44 per cent.
Initial boiling-point ...	180° C.
Fixed residue ...	5 to 6 per cent.
Acidity (calculated as acetic acid) ...	0.15 to 0.20 per cent.

Solubility in alcohol. Nearly all genuine oils are soluble in an equal volume of 80-per-cent. alcohol and in half their volume of 90-per-cent. alcohol. On fractional distillation the rotation of successive fractions should gradually diminish. When 30 c.c. is distilled under reduced pressure and two fractions each of 5 c.c. are collected, the rotation of the first fraction should be higher than the second, and the average of the two (representing the rotation of a 33-per-cent. distillate) divided by the rotation of the essence, should give a ratio not

less than 3.4 when the rotation of the oil is +10° and not less than 2 when the rotation of the oil is +20°. Figures are given showing the effect of the addition of Grecian turpentine. The characters of two kinds of inferior oil of bergamot which may be used for adulteration are given as follows:

1. The oil obtained from the immature fruits (bergamotella), which is dark in colour and has a specific gravity of 0.890–0.896 and an ester-content of 20 to 35 per cent.
2. Distilled bergamot oil having a specific gravity of about 0.865 and containing only 3 to 6 per cent. of esters. It is colourless or pale yellow.

Oxalic and succinic esters and methyl salicylate (!) are mentioned as possible adulterants.

Grecian turpentine, the product of *Pinus halepensis*, is frequently met with as an adulterant, and cannot readily be detected by the usual methods. This oil has the following characters:

Specific gravity at 15° ...	0.8620 to 0.8718
Optical rotation in 100 mm. tube ...	+37° 6' to +39° 45'
Refractive index at 15° ...	67° 2' Zeiss
Initial boiling-point ...	155° C.
Fixed residue ...	2.75 per cent.
Acid value (calculated as acetic acid) ...	0.17 per cent.
Solubility in 80-per-cent. alcohol	1 in 13.7 volumes

Owing to the difficulty of detecting 5 per cent. of this body in lemon, orange, and bergamot oils by the usual fractionation methods, Drs. Berté and Romeo recommended that the importation of this oil into the lemon-producing provinces should be prohibited by the Government.

The Sicilian Earthquake.

MR. C. WESTPHAL has had a telegram from Rome from his principal, Mr. Ig. Siles, of Reggio, announcing his safety.

MR. JOS. FLACH informs us that his principal, Mr. H. E. Cailler, of Via del Trionfo, was rescued from his house in an injured condition three hours after its collapse. His offices, warehouse, and goods were completely destroyed.

Further information to hand respecting the Roberto family states that Mr. and Mrs. Santo Roberto and the younger son Fritz were saved, Antonio, the elder son, being among the dead. We understand the offices of the firm were destroyed, but that securities valued at 45,000*l.* were recovered.

There are already indications that the bulk of the Messina firms will find a location at Catania, the nearest important port to Messina, and already several houses have removed to this centre. A Reuter's telegram from Rome of January 12 states that for the first time since the disaster trading operations took place at the port of Messina, when a steamer was loaded with 2,000 boxes of oranges.

MESSRS. EUGENIO MACAJONE & Co., lately established in Messina, issues a circular from 35 Via Bentivegna, Palermo, stating they will let their friends know when and in which town of Sicily they intend to resume the export of essential oils, peels in brine, citrate of lime, almonds, filberts, etc. Having lost all books, documents, and products they ask their friends for a statement of last transactions, debts, and credits.

MESSRS. FUERST BROS., 17 Philpot Lane, E.C., have received a relic of the Messina disaster in the shape of a postcard which they addressed to their principals, Messrs. Francesco de Salvo & Co., Messina, so long ago as September 25. The postcard was found by Mr. H. R. Chamberlain, of the New York "Sun," who states that in climbing about in one of the worst spots among the Messina ruins, he happened to catch sight of the English writing. He adds that if the addressee lived at the spot where the card was found there is no doubt that he and all with him perished.

MR. ALEX. H. BENNETT, partner in Messrs. Ogston & Moore, are pleased to state was not injured, as stated in our last week's issue. It appears that the paragraph in question related to Mr. A. J. Ogston, the British Vice-Consul at Messina, who was, as was stated, rescued by Mr. Bennett and others. He, unfortunately, sustained a serious injury to his leg. Mr. Bennett, we understand, is still in Sicily, and he hopes ere long to reinstate the laboratory in one of the other trade centres. Meanwhile all samples should be sent to the London office at 39 Lime Street, E.C.

MESSRS. J. & E. ATKINSON, of Old Bond Street, inform a "Daily Telegraph" representative that they do not anticipate any difficulty in supplying bergamot oil to the trade, although it has gone to a famine price. The use of bergamot by perfumers, they say, is not nearly as great as was the case years ago, when perfumes were directly made from flowers. Certain high-class firms, who believe in genuine old-fashioned methods instead of synthetics, still utilise the essential oil, but, according to the "Telegraph," many a high-class West-end esta-

blishment has not found it necessary to use more than $\frac{1}{4}$ lb. of the oil in the course of twenty years, and one is declared to have said, "I do not believe it would make one pennyworth of difference if we did not get any oil of bergamot at all."

Among the donations to the Lord Mayor's Relief Fund since our last issue are the following: S. Maw, Son & Sons, Cadbury Bros., Ltd., Liebig's Extract of Meat Co., Ltd., Boots Cash Chemists, MacLaine Watson & Co., each 105*l.*; Confectioners' Vegetable Colours and Fruit Essences, Ltd., 100*l.*; Burgoyne, Burdidges & Co., Kemball, Bishop & Co., Ltd., Produce Brokers' Co., Ltd., each 52*l.* 10*s.*; W. J. & H. Thompson, W. C. Bacon & Co., Brand & Co., each 26*l.* 5*s.*; Spencer, Chapman & Messell, Ltd., 25*l.*; Brandram Bros. & Co., Ltd., 21*l.*; John Murdoch & Co., 15*l.* 15*s.*; G. B. Kent & Sons, Ltd., R. W. Greeff, C. M. Woodhouse, August Faber & Co., Lewis & Peat, Dalton & Young, each 10*l.* 10*s.*; H. B. Sleeman & Co., 10*l.*; J. H. Dakin, A. C. Wootton, P. Samuelson & Co., C. Wimbles, Son & Co., Salamon & Co., Ltd., each 5*l.* 5*s.*

MR. W. F. VINCE, 20 Gracechurch Street, E.C., writes us that he has just received a letter from Professor Giuseppe Bosurgi, dated Catania, January 1, stating that he was in Messina at the time of the disaster, but escaped. He gives the sad news that Mr. Walter Oates (a young Englishman), his wife (an English lady, *née* Gisella Cailler), and their three children all perished. Mr. Walter Oates and Professor Bosurgi took over a few weeks ago the business of Messrs. W. Sanderson & Sons, of Messina, a much-respected English firm, which has been established in Sicily for a century, doing a large trade in sulphur, silk, and essential oils. There have been various reports in the papers about this unfortunate family, but in face of Professor Bosurgi's letter Mr. Vince fears it is no longer possible to hope that its members escaped, and there are many here who, like himself, will deplore the untimely end of our high-minded young countryman and his charming family. Professor Bosurgi adds that he intends to carry on the business of the firm at Catania. Mr. Vince also informs us that he has just received a letter from Syracuse, dated January 7, from Cav. Giuseppe Scaccianocce (of the firm of Gius. Scaccianocce & Co., of Messina, large exporters of Sicilian produce) stating that he, his wife, and four children were happily saved. "How," he adds, "we do not even know." One son, however, was lost, and remains buried beneath the ruins of his house. Cav. Scaccianocce, who was recently elected a director of the Camera Agrumaria, states that he expects to re-establish his business at Catania.

A MEETING OF THE ESSENTIAL-OIL TRADE was held at the Great Eastern Hotel, E.C., on Monday, January 11, to discuss the position of forward contracts of lemon and bergamot oils. Among those present were the principals or representatives of the following firms: Messrs. Arthur Frankenstein (E. N. Frankenstein & Co.), Alfred Bush and Taylor (W. J. Bush & Co., Ltd.), Brown, Antoine Chiris, F. Devon, White (London Essence Co.), A. & M. Zimmerman, Green, H. Breitenstein (Schimmel & Co.), P. Samuelson, Wilson & Mansfield, Fredk. Boehm, Ltd., R. Lambert (Sam. Lambert & Co.), and Webb (W. Webb & Sons, solicitors). Mr. Frankenstein, in initiating the proceedings, wanted to take the sense of the meeting as to whether sellers of Sicilian essences could be held to their contracts, considering that the quantity of such essences manufactured this year would not be sufficient to meet the sales which had already been made. Mr. Alfred Bush, speaking on behalf of his firm, could not venture in any way to promise that they would not undertake the fulfilment of their contracts. Mr. Boehm's representative said that so far as his firm is concerned they had no free hand, but their principal, Mr. Eduardo Jacob, of Messina, had informed them that all their contracts would be fulfilled. Mr. Samuelson asked how the parties stood legally, and the solicitor replied to the effect "that where a merchant had sold specific goods, such as 'oil of lemon, Messina, new crop,' of a particular brand, and those particular goods were not obtainable, he would naturally be discharged from his contract; but, if a merchant simply sold 'new crop oil of lemon' or 'oil of lemon for delivery over 1909,' no specified brand being mentioned, then his principal would have to carry out his contract." After further discussion, all of which was of a conversational character, the meeting broke up without any definite decision being arrived at.

THE exports of calcium carbide from Gothenburg during 1907 amounted to 826 tons, against 910 tons in 1906.

TRY Sulphur Springs for your daughter's holiday. Sulphur is one of the principal requisites for match-making.

THE imports of drugs into Madagascar during 1907 amounted in value to 2,560*l.*; against 2,976*l.* in 1906 and 2,620*l.* in 1905.

THE EXPORTS OF OPTUM from Smyrna during 1907 amounted to 1,504 cases, or 100 tons, against 3,665 cases, or 253 tons, in 1906; and 3,372 cases, or 207 tons, in 1905.

Calendars.

A pretty hand-painted greeting-scroll reaches us from the Pharmaceutical Council and Society of Western Australia. The water-colour floral sketch is signed by J. Mayhew.

Messrs. Beck & Inchbold, Ltd., art printers, 17 Surrey Street, Strand, London, W.C., issue a daily calendar which is distinguished by the size and clearness of the date figures. These are four inches deep and printed in red. The size admits of notes of engagements being made on the forward dates.

Messrs. Pilchers, Ltd., Morgan's Lane, London, S.E., send out a pocket diary, which carries with it a 1,000*l.* insurance-coupon. The diary is $4\frac{1}{2}$ in. by 3 in., and is bound in red, with a pencil fitted in the book. With the diary we have also received a book of sample tints of Pilchers' Perfection Paints. There are sixty-nine different shades of these paints.

The Country Almanac which is sent out by Mr. David Kennedy, agricultural chemist, Hawick, is true to its name. The notes, illustrations, and advertisements all treat of agriculture and cattle rearing. A nicely produced colour print of a herd of Jerseys is used as a frontispiece, and four half-tone reproductions of photographs of prize animals are inserted. Mr. Kennedy specialises in agricultural chemical trade.

Mr. C. Forbes Johnston, chemist and druggist, 163 Brook Street, Brompton, sends out "My Chemist's Calendar" for 1909. This is a card, $11\frac{1}{2}$ in. by $7\frac{1}{2}$ in., to which the monthly tear-offs are affixed. The features of this calendar are that it does not bear on the face of it the name of the chemist and the humorous coloured sketch by "Cynicus" (who resides in the neighbourhood) entitled "The Family Doctor." The sketch represents an old lady administering a dose of castor oil to a youngster who has indulged too freely in Christmas pudding.

Mr. Samuel Lawrence, chemist and druggist, 101 George Street, Oban, publishes the "West Highland Almanac" for the twenty-second year in succession. A copy which he has sent us shows that Mr. Lawrence has become an expert in almanac production; he certainly seems to have caught the popular fancy. A prize-competition is again a feature of the almanac, but this year it takes the form of an ingenious guessing-scheme, which at the same time ensures that the competitor has an intimate acquaintance with Mr. Lawrence's special preparations.

Messrs. W. H. Dixon & Sons, East Grinstead, publish a family almanac containing a local directory which we should imagine is well appreciated, judging by the way the size of the volume has grown. It is now a 200-page book, and has plenty of information about the business it is primarily intended to advertise. *Pour encourager les autres*, we may add that Mr. Dixon started business at East Grinstead just thirty years ago when he was twenty-four, and has worked up successful businesses in two shops, at the same time serving his fellowmen in many public capacities. Mr. W. R. Dixon and Mr. P. G. Dixon, two sons, both chemists and druggists, are now associated in the firm. On May 24 Mr. W. H. Dixon organised a celebration of Empire Day which created much local interest.

Mr. Major Hill, chemist and druggist, 109 Norfolk Street, Wisbech, sends us with New Year's greetings a copy of the 1909 almanac which he is distributing to his customers. It has a brilliant cover in red and gold. We are interested in the following note, which occurs on a slip inside:

SPECIAL NOTICE.—Under Section 3 of the Poisons and Pharmacy Act, 1908, to which Royal assent was given in the House of Lords on December 21, 1908, and which Act will come into operation April 1909, Major Hill, dispensing chemist, of 109 Norfolk Street, Wisbech, is duly authorised to take, use, and exhibit the name or title of

"PHARMACIST,"

this being a personal title granted only to those qualified by examination for the dispensing of physicians' prescriptions and the sale of poisons.

Mr. Hill is setting a good example, which others may well note.

Observations and Reflections.

By "Xrayser."

Messina,

whose terrible calamity has thrilled the civilised world, is a city with several notable pharmaceutical associations. As the headquarters of the lemon and citric business many of its merchants have been well known to our wholesale druggists, and even when only a name is familiar the tragedy associated with that name seems to become more vivid. The pathetic stories crowded into a page of the last issue, and told so briefly, were sad to read, and they were but samples out of thousands. The juices and peels of lemons and oranges were introduced into medicine by the Arabs, and the trees bearing these fruits were probably first planted in Sicily after the conquest of the island by the Saracens in the ninth century. It has been supposed, too, that the manna ash was also brought to Sicily during the same period. This belief rests on the fact that a mountain near Cefalu, about midway between Messina and Palermo, is still known by the name of Gibil-manna, or manna-mountain. Daniel Hanbury did not consider this evidence sufficient to establish the priority of Sicily as the first European home of the tree. He believed that it was planted in Calabria, on the Italian mainland, before it was brought to Sicily. The peculiar name of the mountain, however, he tells us, is found in a diploma relating to the foundation of a bishopric of Messina, dated 1028. At present all the manna of commerce comes from Sicily. A still more important association of Messina with pharmacy is that it was possibly in that city that the link connecting

Arabic and European Pharmacy

was forged. Frederick II., Emperor of Germany and King of Sicily from 1198 to 1250 ("stupor mundi et immutator mirabilis"), perhaps the most enlightened ruler of the Middle Ages, lived often at Messina during the intervals of his foreign wars, and among his reforms he sought to regulate the conditions of medicine and pharmacy. In all matters of learning and science he took counsel with Mohammedan and Jewish scholars, probably men who had studied in the schools of Cordova or Seville. These were, in fact, the only authorities on such subjects available at that time, and Frederick, who had been twice excommunicated by the Pope, had no theological prejudices against them. His edict was issued about the year 1235, and was a remarkable document. Sicilian and Neapolitan doctors were required to obtain a diploma from the medical school of Salerno before they might practise; and the "confectionarii" who compounded their medicines—that is, the pharmacists of the time—were similarly required to hold an attestation of their capacity from the faculty of medicine either of Salerno or Naples. They were limited in number, and their rates of profit were strictly defined. In the preparation of their medicines they must follow the Antidotary of Salerno, and certain of their electuaries and other medicines were to be compounded in the presence of specially authorised inspectors. The inspectors were to be punished by death if they connived at any fraud. No medical practitioner could be a "confectioner." The system thus and then created was soon established throughout Italy, gradually spread to Germany and France, and was feebly reproduced in Great Britain six hundred and thirty-three years later.

Living-in.

A Departmental Committee was appointed by the Home Office two and a half years ago, with the Lord Advocate as Chairman, to inquire into the operation of the

Truck Acts, and incidentally to consider whether the practice of shop-assistants and certain classes of workpeople being lodged and boarded by their employers gives rise to abuses needing remedy by an extension of the Truck Acts or by any other action of the State. The Truck Acts compel employers in most manufacturing industries to pay wages in current coin of the realm. Formerly they would sometimes insist on paying a portion in tea or other goods on which they made an exorbitant profit. There are certain assistants' unions, representing a proportion of the grocers' and drapers' assistants of the country, who claim that similar enactments should be made applicable to them; and two members of the Committee—Mr. Stephen Walsh, M.P., and Miss Tennant—support this demand in a minority report. The majority, however, do not think a case for such legislation has been made out. Living-in is a development of the old apprentice days; but the big modern store, with hundreds of assistants, is quite different from the family life of two or three centuries ago. Witnesses told the Committee gruesome tales of overcrowded and unhealthy bedrooms, insufficient and sometimes unwholesome food, hurried meals, girls coming back late and locked out all night, married men having to pretend they are single in order to get a situation, and so forth. Members of the Committee visited a number of places and came to the conclusion that there was not much foundation for the complaints. Other witnesses gave opposing evidence. The difference in wages between living-out and living-in averages in the big establishments 25% to 30% a year, and many assistants reckon that they would be a good deal worse off if they had to provide for themselves on such a figure. It will probably be agreed that the proposal of the Committee to provide some sort of inspection of homes where assistants are lodged is as much as is needed to be done to remedy a not very flagrant evil. Chemists' assistants have apparently not been considered at all; we are generally a *casus omissus*. But perhaps even Mr. Stephen Walsh, M.P., would hesitate before he legislatively disestablished the pharmaceutical night-bell.

Minor Certificates

cost at least twelve guineas each, *plus* time and teaching; they are declared by statute to be essential to the persons who have bought one, and who have elected to get their living by pharmacy; the Secretary of the Society informs the Council that the ink used on them cannot be depended on to tell its story for five years; an experienced member of the Council says this is an old-standing grievance; there are a research laboratory and skilled chemical advisers on the premises; there are documents in the neighbouring British Museum written almost as far back as the lifetime of Moses; and the discussion drops.

"Taxus Baccata"

recommends "the pharmacist with a little capital" to try the North-Western Territories of Canada as a wide sphere for his activity. He would find that sure enough. Alberta is the district "T. B." particularly indicates. With a gorgeous indifference to the conditions which are generally supposed to be necessary for the success of a pharmacy "T. B." pictures the mountains and valleys, prairies and meadows, dense forests and navigable rivers which would meet the astonished gaze of the gentleman with the Bloomsbury certificate in his pocket. Under his feet, he might be glad to know, would lie bituminous lignite, anthracite, and galena; and abundant fishing and shooting would await him in his holidays. The rush of customers he might expect when his establishment is fitted up may be estimated from the fact that the population of Alberta is still a good bit short of one individual to the square mile, and it is more than likely that that one has not yet realised the yearning for quinine-and-iron tonic to which our effete countrymen have been educated.

"Sanitas"

DISINFECTANTS.
OF ALL CO-EFFICIENCIES
OF ALL KINDS AND
FOR ALL PURPOSES.

THE "SANITAS" CO. LTD. LOCKSLEY STREET,
LIMEHOUSE, LONDON.

SPRATT'S

**DOG, POULTRY & CAGE BIRD
FOODS & MEDICINES.**

Trade Terms of

SPRATT'S PATENT, Ltd.,
24 Fenchurch Street, London, E.C.

or your Wholesale House.

IF THE BUSINESS MAN • ONLY • KNEW •

how we can help him in the planning, writing, illustrating, producing, placing and distributing of his advertising matter—

HERE IS AN EXAMPLE—We received recently particulars (roughly translated from the Dutch) of a new speciality, with a request that they might be re-written by some one who knew, and turned into an effective circular. We wrote the fresh copy, and designed, laid out, and printed a business-bringing booklet. The whole work was carried out

—by our own staff—

—on the premises—

—with promptitude—

—to the customer's complete satisfaction—

WE CAN DO THE SAME FOR YOU TO-DAY.

W. H. SMITH & SON'S ADVERTISING AGENCY

H. E. MORGAN, CONTROLLER

—will help you as much or as little as you wish—
—place your advertisements only, or manage your campaign—
—return all commissions and charge for work done—

HELP IN MARKETING—The Name—The Trademark—The Package—The Display—The Sales Plan.

HELP IN ADVERTISING—The Scheme—The Copy—The Designs—The Typesetting—The Media.

95 FETTER LANE, LONDON, E.C.

G. S. MUMFORD, FARRINCORN RD., LONDON, E.C.

No. 1 Finest Pure CRUSHED LINSEED	20/cwt.	Finest Pure STARCH POWDER	22/cwt.
No. 2 Pure CRUSHED LINSEED	19/cwt.	No. 1 Finest Light Pure PRECIPITATED CHALK	25/cwt.
Best Cleaned LINSEED (TEA)	19/cwt.	EPSOM SALTS, E.S.S. Purified, Clean, and Dry	11/6 cwt.
No. 1 Finest Pure FULLER'S EARTH (Light Colour)	15/cwt.	Finest Levigated "WHITE EARTH" (Toilet purposes)	18/cwt.
Finest Compound LIQUORICE POWDER	/8 & 1/1b	Finest Pure TOILET OATMEAL, SPECIAL	32/cwt.
Finest Pure LIQUORICE JUICE	/10 lb.	Finest ARROWROOT	1/ lb.
BICARB. SODA Finest	15/cwt.	FULLER'S EARTH (In Dredgers)	/1/2 & /6

"NYTO"

SHAMPOO POWDER
For KILLING VERMIN on
the HEAD.

Is being extensively advertised in all the leading papers. Chemists would do well to be prepared for the demand which is sure to ensue. Retail **2d.**; Wholesale **1/6** per doz. through all the Drug and Sundry houses.

London Distributing Agents:
MAY, ROBERTS & CO.,
9 Clerkenwell Road, E.C.



LUDDINGTON'S OILS.

For lambing, &c. On P.A.T.A.

WINTER DIP.

We can quote for all classes:—Liquid, Paste, or Cake; poisonous or non-poisonous.

TOMLINSON & HAYWARD, Ltd., LINCOLN.

S.V.M.

METHYLATED SPIRIT
Also RECTIFIED SPIRIT.

⁵⁸ O.P. **S.V.R.** ⁶⁰ O.P.

Jas. Burrough Ltd.

Cale Distillery, Hutton Road,
LAMBETH S.E.

FLETCHERS' HYDROBROMATES.

The titles "Syr. Hydrobrom." and "Syr. Hydrobrom. c. Strychnia" were originated by us in the year 1879 and can only be legitimately applied to FLETCHERS' HYDROBROMATES. Legal proceedings will be instituted against any firm or person dispensing or offering for sale fraudulent imitations of FLETCHERS' SYRUPS.

SOLE PROPRIETORS:

FLETCHER, FLETCHER & CO., Ltd., LONDON, N.

Editorial Comments.

The New Act.

III.—Companies and Titles.

By the 1880 decision it was held that bodies corporate do not infringe Sections 1 and 15 of the Pharmacy Act, 1868, by selling poisons. This virtually made such bodies immune to other offences in the sections.

THAT is an anomaly which the Poisons and Pharmacy Act, 1908, remedies. Few people appreciate to the full the significance of the reform, although it has been the subject of controversy for nearly three decades, especially during the past decade as regards what is familiarly known as "the

title." We may, therefore, usefully state the offences to which companies are immune until April 1. They are :

1. Selling poisons (by retail).
2. Keeping open shop for the retailing, dispensing, or compounding poisons.
3. Taking, using, or exhibiting the name or title of chemist and druggist or chemist or druggist.
4. Taking, using, or exhibiting the name or title of pharmaceutical chemist, pharmacist, or pharmacist.
5. Failing to conform to regulations as to the keeping or selling of poisons.
6. Compounding medicines of the British Pharmacopœia contrary to its formularies.

Although the 1880 decision was solely in respect to the first of these offences, the highest authorities considered that it extended to all. Let us see what the provisions of the new Act do, and it may be advantageous to recite briefly what was done while it was before Parliament.

The measure was the Privy Council's, and in previous Sessions of Parliament it contained a company clause taken from the Pharmaceutical Society's Bill, which was left out on this occasion as being controversial. It permitted companies to use the name or title of "chemist and druggist" or "chemist" or "druggist" provided one or more of their directors were registered chemists and druggists and had control of the poisons. It also placed companies in the position of individuals as regards infringements of the Act. The Joint Committee of both Houses to which the Bill was referred declined to reinstate this clause, but recommended another enabling companies to use the name or title last mentioned if every premises where they carried on business was *bona fide* managed by a registered chemist; the same to apply to firms in Scotland, which, according to Scots law, are not "persons" within the meaning of the 1868 Act (it will be understood that this clause is included when we speak of companies, also that firms in England and Wales are not affected). The clause was radically altered in later stages in the Lords. First, company shop-management was made the same as that of individual chemists; second, use of the title was made conditional upon one at least of the board of directors being a registered chemist. In the House of Commons the clause was again altered, every company carrying on the business of a chemist being required to appoint a registered chemist as superintendent of the poisons, while the shop-management provision remained; and if the company use the title the superintendent must have a place on the board of directors. In this form the clause has become law.

For the purpose of exposition we repeat the provision, which is Sub-section 4 of Section 3 :

(4) A body corporate, and in Scotland a firm or partnership, may carry on the business of a pharmaceutical chemist or chemist and druggist—

(a) if the business of the body corporate, firm, or partnership, so far as it relates to the keeping, retailing, and dispensing of poisons, is under the control and management of a superintendent who is a duly registered pharmaceutical chemist or chemist and druggist, whose name has been forwarded to the registrar appointed under the Pharmacy Act, 1852, to be entered by him in a register to be kept for that purpose, and who does not act at the same time in a similar capacity for any other body corporate, firm, or partnership; and

(b) if in every premises where such business as aforesaid is carried on, and is not personally conducted by the superintendent, such business is *bona fide* conducted under the direction of the superintendent by a manager or assistant who is a duly registered pharmaceutical chemist or chemist and druggist, and whose certificate of qualification is conspicuously exhibited in the shop or other place in which he so conducts the business.

A body corporate, and in Scotland a firm or partnership, may use the description of chemist and druggist, or of chemist or of druggist, or of dispensing chemist or druggist, if the foregoing requirements as to the carrying on of the business are observed, and if the superintendent is a member of the board of directors or other governing body of the body corporate, or of the firm or partnership, as the case may be; subject as aforesaid, section twelve of the Pharmacy Act, 1852, and sections one and fifteen of the Pharmacy Act, 1868, shall apply

to a body corporate, and in Scotland to a firm or partnership, in like manner as they apply to an individual.

The broad effect of the provision is that any company doing any of the six things named in Sections 1 and 15 of the 1868 Act, and quoted above, must observe the conditions of the sub-section, otherwise it is liable to a penalty of 5*l.* for each offence. That, obviously, is a complete legal gain. But there is more of a revolutionary nature in the provision. Hundreds of companies are registered to carry on the business of a chemist and druggist. Each of these which does so must by April 1 fulfil the conditions of the sub-section. It will be the duty of the Pharmaceutical Society to see that this is done, and to ensure that companies henceforth registered for the same purpose conform with the new Act. In a comparatively short time knowledge of this provision must materially retard company exploitation of pharmacy by capitalists and formation of one-man companies. Hitherto businesses have been converted into companies to avoid the Pharmacy Act penalties; henceforth such conversion brings the businesses within the scope of the six penalties and imposes others. We do not, of course, forget that "the business of a chemist and druggist" has still to be defined, but, whatever it be, companies carrying it on must have

(1) a registered chemist and druggist or pharmaceutical chemist as *bona fide* manager of each shop where the business is conducted;

(2) a registered chemist and druggist or pharmaceutical chemist as superintendent of the business so far as it relates to the keeping, retailing, and dispensing of poisons; and

(3) if the company uses one of the permitted titles the superintendent must be a director.

These are obligations which will make many potential companies pause, and drive some existing companies into voluntary liquidation. Some pharmacists deplore the Act as a recognition of companies. It will be observed, however, that all reference to registration of companies by the pharmaceutical Registrar has been eliminated; the register which he is to keep is of pharmaceutical chemists and chemists and druggists who act as superintendents of companies. It can never be of much business advantage to companies, and it may have disadvantages to the persons whose names appear in it. Altogether, the company provisions of the Act ensure for the public qualified control as near as possible the same as that of personal owners, and a qualified manager in each shop.

As to statutory titles, the following table shows what pharmaceutical chemists, chemists and druggists, and companies may use :

Ph.C.s.	C. & D.s.	Companies.
PHARMACEUTICAL CHEMIST.	CHEMIST AND DRUGGIST.	CHEMIST AND DRUGGIST.
PHARMACEUTIST.	CHEMIST.	CHEMIST.
PHARMACIST.	DRUGGIST.	DRUGGIST.
CHEMIST AND DRUGGIST.	PHARMACIST.	DISPENSING CHEMIST.
And any other title which chemists and druggists may use.	DISPENSING CHEMIST.	DISPENSING DRUGGIST.
	DISPENSING DRUGGIST.	
	CHEMIST AND PHARMACIST.	
	PHARMACIST AND DRUGGIST.	
	Or any other combination of the above names or titles.	

The continuance of trading or firm names is not touched by the Act. Chemists and druggists and pharmaceutical chemists may trade under any name, and attach their titles thereto, so long as their certificates are exhibited in the premises in which they *bona fide* conduct the business. It was the Pharmaceutical Society's Bill which interfered with such names.

It should be noted that the Act does not authorise the Registrar to register Minor men as pharmacists. They will still be registered as chemists and druggists, and the certifi-

cates will be as before, no power being granted to alter them. All that Sub-section 3 does is to enable chemists and druggists to "take, use, or exhibit the name or title of pharmacist" without being fined 5*l*. It is an offence for chemists and druggists or companies to use the titles "pharmaceutical chemist" and "pharmacist," and for companies to use the title "pharmacist." Outside the statutes are many descriptions closely resembling the above whose use by individuals or companies is not barred by the new Act unless they come within the prohibition contained in Section 12 of the 1852 Act, viz. :

It shall not be lawful for any person . . . to assume, use, or exhibit any name, title, or sign implying that he is registered under this Act [*i.e.* as pharmaceutical chemist or pharmacist] . . . or that he is a member of the [Pharmaceutical] Society.

Companies are now made amenable to this section and its penalties; consequently care must be observed in the use of the word "pharmaceutical" with reference to them. Mr. Herbert Samuel, on the authority of the Pharmaceutical Society, stated to the Committee of the House of Commons that "pharmaceutical department" could legally be used by a body corporate, but we question if such a body could legally describe itself as a "pharmaceutical company." In fact, companies would be well advised to eliminate the word "pharmaceutical" from their descriptions, for in that direction lie the five-pound penalties.

British Trade in 1908.

THE export and import trade of the United Kingdom last month was better than was anticipated; imports were better, but exports declined by 10.2 per cent. on December 1907. That 1907 was a "boom" year everybody admits, while 1908 was bad, but better than 1906. These are the figures :

	1906	1907	1908
	£	£	£
Imports ...	607,888,500	645,807,942	593,140,723
British exports ...	375,575,338	426,035,083	377,219,579
Re-exports ...	85,102,480	91,942,084	79,665,569
	£1,068,566,318	1,163,785,109	1,050,025,871

These speak for themselves, and it is believed that our foreign competitors will not be able to show a better bill, which is no consolation to those who have missed the handling of over a hundred million pounds worth of goods that were not bought and sold last year. The details show on the import side that the declines include 3,042,888*l*. less food, 37,760,127*l*. less raw materials, and 11,780,257*l*. less manufactured goods. In British exports a decline of 786,397*l*. in food, one of 2,616,470*l*. in raw materials, and 44,964,186*l*. in manufactured articles are the striking figures. Our imports of chemicals, drugs, dyes, and colours for the twelve months were as follows :

1906	1907	1908
£10,104,111	£11,629,978	£10,199,567

The few items that were least affected were boron compounds, brimstone (40,000 cwt. more), cream of tartar, glycerin, saltpetre, and tartaric acid. Soda compounds fell from 343,537 cwt. to 270,350 cwt., bleaching materials from 176,586 cwt. to 142,879 cwt., Peruvian bark from 24,470 cwt. to 17,219 cwt., quinine and quinine salts from 2,345,180 oz. to 1,480,641 oz. (or 864,539 oz. less), painters' colours from 2,202,513 cwt. to 1,922,397 cwt., and in dye-stuffs the shrinkage was an all-round one, with the exception of gambier, myrabolans, and valonia. Unenumerated chemicals were 1,016,150*l*., as against 1,079,786*l*. in 1907. Slightly over two millions less of oil-seeds, fats, gums, etc., were imported, say twenty-eight millions sterling, as against thirty, but lower cost of the raw materials form

a serious consideration here, e.g., the imports of turpentine rose from 510,308 cwt to 573,674 cwt., the latter costing 136,712*l*. less. Shellac is another striking instance of cheaper raw material, our imports (135,729 cwt.) increasing by 18,873 cwt. for which 311,501*l*. less was paid. "Gum arabic" followed suit, the decline being 27,200 cwt., or 42,500*l*. less. Imports of quicksilver increased from 2,958,603 lb. (39,448 bottles) to 3,270,412 lb. (43,605 bottles), values rising from 275,197*l*. to 353,390*l*., and among miscellaneous imports were 2,254 gal. spirit for methylating, as compared with 1,962 gal. in 1907 and nil in 1906. Foreign white lead has a growing consumption here, imports advancing from 298,643 cwt. in 1907 to 317,982 cwt in 1908; and the trade in zinc oxide, another American product, amounted to 250,745 cwt., valued at 280,624*l*. Imports of toilet-soap were 17,059 cwt., against 18,224 cwt., for which 96,550*l*. was paid, and although there was a falling-off in imports of household soap by about 7,000 cwt., values rose by 20,000*l*. Spices, such as cinnamon, ginger, pepper, etc., declined by 117,596*l*. in value, but the bulk was about the same.

On the export side the decline of 48.8 millions was spread almost over every item, new shipping being a notable exception. The decline of 44,964,000*l*. in manufactured articles compared with 1907 is the formidable part of the account. Textiles decreased by 25,225,000*l*., iron and steel by nine millions, and other metals were 2,814,000*l*. down. The goods were in many cases cheaper, but that does not explain all the decline, and the balance is generally attributed to the financial unsteadiness of the year. It is curious to note that the chemical and drug trades have not suffered in the same proportion, British exports of these goods being as follows :

1906	1907	1908
£15,521,288	£17,052,755	£16,288,855

An increase of 767,567*l*. is not bad. The re-exports of similar goods amounted to 1,785,000*l*., or an increase of 69,852*l*. over 1907. The partial loss of the United States market was keenly felt in bleaching-material exports to that country, which declined from 776,000 cwt. to 487,600 cwt.; but shipments to other countries were maintained at just over 300,000 cwt. Exports of coal products (not dyes) were practically the same at 1,551,500*l*., and in copper sulphate the remarkable figure of 1,593,000*l*. has been attained, the weight being 71,291 tons, against 45,304 tons. The trade in painters' colours was valued at 2,290,900*l*. In a year of general complaint the drug and medicine figures are particularly gratifying, and, leaving out quinine, they even exceed those of 1906. They are as follows :

	1906	1907	1908
	£	£	£
Quinine ...	49,868	52,999	37,553
Medicines ...	1,499,603	1,682,120	1,509,347
	£1,549,471	1,735,119	1,546,900

The year's exports of British quinine amounted to 825,203 oz., or 305,000 oz. less, and of quinine declared as "foreign" only 103,193 oz. was shipped abroad, as compared with 317,902 oz. in 1907. The above business of over one and a half millions in drugs and medicines alone is one that British drug firms may well be proud of, and we share with them the hope that there will be a sharp return this year to the 1907 figures.

"The Name and Certificate . . . is."

This grammatical error in Section 3 of the Poisons and Pharmacy Act well illustrates why judges and everybody else are sarcastic about Acts of Parliament not being what they seem. When "and certificate" was interpolated by

the House of Lords, the verb should have been altered to "are," but it was not, and as the sentence now stands the Courts may some day be called upon to decide whether a certificate containing a name is a name and certificate, or whether a name and certificate are required by Section 3 (1) and (2).

The Hops Bill of Next Session.

There is every reason to believe that the Bill relating to the hop industry which is to be introduced in the House of Lords in the early part of the ensuing Session—as already announced in the *C. & D.*—will be in the hands of Lord Addington, who initiated a discussion on the question in May last. On that occasion his Lordship carried a resolution affirming that the continued cultivation of the hop-gardens of England was a matter of national concern, and that the present critical condition of the industry deserved the immediate attention of the Government. The Bill will we understand, be much stronger in many particulars than the measure of last Session, and will deal not only with the marking of foreign imported hops, but with the prohibition of all substitutes for hops used in the manufacture, brewing, or preservation of beer. This, it is believed, will receive the support of the whole of the Unionist party and of practically all the Ministerialists in the House of Commons.

Sale of Unstamped Scales, Weights, and Measures.

Every chemist who does a photographic business, and many more besides, stock and sell cheap sets of dispensing scales with weights, as well as graduated measures, all being unstamped, because they are not required for trading-purposes but for compounding photographic solutions. In this connection the question arose whether or not the presence of these in a chemist's stock would be regarded as ground for proceedings against the chemist. We thought it advisable, therefore, to address Major P. A. MacMahon, D.Sc., F.R.S., Deputy Warden of the Standards Department of the Board of Trade, on the matter, and we have now received the following reply :

Board of Trade,
(Standards Department),

Old Palace Yard, S.W., 8th January, 1909.

SIR,—With reference to your letter of the 1st instant, inquiring whether unstamped scales, weights, and measures may be kept in stock for sale by retail chemists, I have to acquaint you that this question would appear to be one involving the interpretation of Section 59 of the Weights and Measures Act, 1878, upon which the Department have no power to express an authoritative opinion; but I may add that, so far as I am aware, a vendor may sell and a purchaser may buy unstamped scales, weights, and measures, provided, of course, that these are duly stamped before being brought into the use for the purposes of trade.

I am, Sir,

Your obedient Servant,

P. A. MACMAHON,
Deputy Warden of the Standards.

The Editor, THE CHEMIST AND DRUGGIST,
42 Cannon Street, E.C.

This statement is all, we feel sure, that retail chemists want to know, since it brings out clearly the fact that it is "use for the purpose of trade" that is the initial requirement for stamping.

Departmental Committee Report on Drug Treatment.

The Report of the Departmental Committee on the Inebriates Act was issued on January 11. The Committee state that though they were impressed with the inherent improbability that any treatment by drugs could be enforced by Act of Parliament, they communicated with advocates of such treatments, and have carefully considered

the statements sent in answer to their request. The Committee find that although the persons who have voluntarily submitted themselves for treatment are admittedly the most favourable cases for treatment, none of the methods finds every case amenable to the treatment, nor can curable cases be distinguished from incurable before trial of the remedy; and nothing in the information supplied would justify them on modifying their opinion. To embark upon an inquiry into the efficacy and comparative merits of treatment of inebriates by drugs would involve great expenditure of time and money, and any conclusion arrived at by such an inquiry could not affect the Committee's recommendations as to the need of the continuance of the principle of detention under the Inebriates Act, and they are convinced no good purpose would be served by making any further investigation into that mode of treatment. We understand that there is little or no probability that the report of the Committee will be acted upon legislatively in the course of the forthcoming Session of Parliament. Even if a General Election should not disturb the political horizon, it is safe to say that practically every moment of next Session which will be at the disposal of the Government has already been earmarked for legislative proposals in regard to which they have given specific pledges to their supporters.

Agricultural and Horticultural Poisons.

It is gratifying to note that chemists throughout the country are alive to the fact that the new conditions as regards the sale of poisonous substances for agricultural and horticultural purposes throw a fresh responsibility upon them, in so far as the existing facilities for procuring these preparations have to be considered before licences for their sale are granted to unqualified persons. This virtually means that the local authorities will first assure themselves that chemists refuse to deal in the preparations. Present indications are quite to the contrary, and from inquiries which have been addressed to us and information which we have received, we have little doubt that before April 1 chemists in most places where such goods are in frequent demand will be able to assure their local authorities that they supply the articles. The plan has already been started of taking over the stocks of local shopkeepers and arranging to supply their old customers without the shopkeepers losing monetary interest in the transaction. This is in accordance with the High Court decision, and there is no reason why retail chemists should not take full advantage of it, by relieving unqualified traders of the responsibility. At a meeting of the Bradford Association last week (which is reported in this issue) Mr. Arthur Hanson gave some sound advice on this department of trade, and we commend his remarks to chemists. It is too generally assumed that certain practices which have grown up outside pharmacy in respect to this business have been totally legalised by Section 2 of the new Act. This is quite misleading. Both the restrictions contained in the section and regulations tend to place this business in poisons into the safest possible conditions, and many who have been handling them illegally will not be able to continue their sale. Some of the makers of the popular preparations have made little attempt to cultivate business with chemists; others have actually gone out of their way to seek distributors who are not chemists; while a few, such as Messrs. Tomlinson & Hayward, Ltd., have mastered the conditions which prevail in pharmacy and have built up good connections with chemists. In all circumstances chemists, we feel sure, are prepared to supply the public with what they want, and now is the time for them to prepare for the spring and summer demand.

French Synthetic Camphor.

ARTIFICIAL CAMPHOR.—It is reported from France that a new company, known as the Société le Camphre, of 68 Boulevard de Strasbourg, Paris, is to acquire various patents for the production of synthetic camphor, including those of MM. Dubosc and Behal. A factory has been secured at Bonnières, and work is to be "commenced in the course of a few months." The old story is circulated that the plant will be capable of producing three to six tons of artificial camphor per day!—*C. & D.*, August 31, 1907.

Since the above paragraph was written, facts have transpired which show that the Société le Camphre has fallen upon evil times, the company having practically exhausted its capital of 7,100,000f. (284,000*l.*), while the production has been relatively unimportant. This much we gather from lengthy reports on the condition of the company which have been published in the French financial Press. Although the company was formed in February 1907, no profit-and-loss account has been issued, but a statement of accounts to June 30, 1908, shows that a sum of 4,169,732f. has been expended on the purchase of patents, and that a further 2,300,000f. has been laid out in land, buildings, etc. On June 30, 1908, there was 521,070f. at the disposal of the company, while the liabilities were 270,497f., leaving a balance of 250,573f., which was insufficient to meet working-expenses, so that a fresh issue of capital is necessary. It appears that "Le Camphre" was an affiliated undertaking of the Société l'Oyonnithé, which had been able to secure the patents for the manufacture of synthetic camphor, and they in turn formed or caused to be formed another company to which they sold the patents. Subsequently the shares were "boomed," and the interest of the public was excited to such an extent that many shares were disposed of by the promoters at more than 100 per cent. premium. It is not known what proportion of these gains accrued to "l'Oyonnithé," but on December 31, 1907, this company did not possess a single share of the affiliated company, showing that the confidence inspired in the new company was not very great. Time has proved the wisdom of "l'Oyonnithé," as the 100f. shares of "Le Camphre" are now worth 36f. only. The meeting of shareholders on December 31 was stormy, considering that many of them had purchased shares at double the par value. The present board of directors were only able to hold on to their office by the votes of absent shareholders. Aggrieved shareholders pointed out that the company had been stating that the daily production of synthetic camphor was 200 kilos., whereas it appears the company has only produced 2,500 kilos. since its formation. Professor Behal declares he has not received a penny for the sale of his patents, though he was also promised a bonus of 25c. per kilo. on the manufacture.

Information Wanted.

Inquiries for the names and addresses of manufacturers, or other trade information, not traceable by reference to the advertisement-pages of "The Chemist and Druggist" and the "C. & D. Diary," or not filed in our private register, are inserted here free of charge. Postcard or other replies to any of the subjoined inquiries (addressed to the Editor "The Chemist and Druggist," 42 Cannon Street, London, E.C.) will be esteemed.

- 119/36. Agents for Park's Pan-Aseptic Oil.
- 174/63. Makers of card cases for packing court-plaster.
- 167/17. Address of the Treharn Co., manufacturing chemists.
- 19/91. Who are makers or agents for rolls of perforated printed labels?
- 169/56. London agent for "Mucol," an American preparation.
- 171/74. Manufacturers of or agents for "Elf's brand carbon." Also the address of Renard et Cie., manufacturers of toilet-articles.

Extending a Proprietary.

By Thomas Russell.

III.—The Label and Wrapper.

THESE requisites are the next consideration after the choice of a name for a new "proprietary." It is a great mistake to suppose that any very heavy expenses need be incurred for engraving labels and wrappers. Of course a wrapper which is elaborately and extensively engraved on steel or copper is more difficult to counterfeit than a plain printed paper, and as we are looking to the possibility of a large sale, counterfeiting must be provided against some day. But in reality, until we come to export business, direct slavish counterfeits are very uncommon: they are, in fact, practically unknown in the home market. The law is strong enough for protection without mechanical aids to efficiency, and the device of using distinctiveness of one sort or another in designing wrappers and labels secures the law's privileges. Any kind of simple design is safe against colourable imitation. If you use a peculiar lettering or arrangement of letters, or quite the simplest illustration or design, the man who even distantly copies it puts the rope round his own neck. Imitation is confession of fraud.

The wrapper—the covering that is visible when the article is handed out to the purchaser—should bear complete information as to the purpose of the contents. Often it may be desirable that it should bear the directions for use, so that a purchaser can learn what he would have to do with the goods before committing himself to the purchase. Probably the directions would vary according to circumstances, but if it is not possible to print full directions on the cover, there can at least be an indication of the way the article is used. The purchaser need not have to open the wrapper in order to find out whether the contents are to be swallowed or rubbed on his head. (There are hair-growing preparations nowadays recommended for use in each of these ways: the trope is not so far-fetched as it sounds.)

It is neither necessary nor desirable to use very strong commendatory language on the outside wrapper, or, in fact, anywhere. Words like "magnificent," "universal," "infallible," and all superlatives, are a mark not of strength, but of weakness. It is far more convincing to give a reason than to state the case very strongly—

SUCH-AND-SUCH NEURALGIC MIXTURE,

by soothing the nerve centres and diminishing the pressure of the blood on the brain, quickly cures headache and tic.

SO-AND-SO'S RHEUMATIC PILLS

contain an ingredient which has the power of neutralising acid in the blood, and this pill consequently cures by removing the cause of rheumatism.

Directions for use should be simple and logical. They cannot be too plain. We do not want anything in the nature of the "shake" label which caused the mother to shake the baby instead of the bottle. If it is possible to explain in popular words the action of the medicine, the directions will be far more convincing than if we state baldly that every dose is a cure. It will also be a great help to the proper use of a medicine if we do not confine the definition to the bare names of disorders which the medicine is intended to cure, but summarise in clear and chaste language the symptoms that have to be met. In other words, it is well to give the patient a little help to diagnosis. Similarly with a toilet-article or other proprietary, directions should be simple, and should call for as little knowledge as possible on the part of the reader. The people whom we can see and talk with across the counter can have the goods explained to them. But it is for a sale *beyond the counter* that we are planning, and the goods must tell their own story, or we shall never get them to carry beyond the shop.

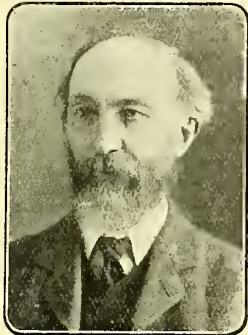
A speciality having been first devised, and then named and suitably enclosed, the next point to be considered will be: How to push the sale of it.

MESSRS. H. YANAGISAWA AND N. NAGAI were the lecturers at the terminal meeting of the Japan Pharmaceutical Society, which was held in the pharmaceutical lecture-hall of the Tokyo Imperial University.

Winter Session.

Association Presidents.

THE Edinburgh and District Chemists' Trade Association is this year presided over by Mr. C. A. Macpherson, who has



MR. MACPHERSON.

been long identified with pharmaceutical activities in Edinburgh. He commenced his career in pharmacy forty-two years ago as an apprentice with Mr. Alexr. McRae, Abbeyhill, who gave his apprentices a good all-round training, from washing bottles to powdering aloes, preparing simple chemicals and dispensing prescriptions. Mr. Macpherson had seven years of it, and got the time to attend science classes at Surgeon's Hall and Watt Institution. He had not thought of qualifying, but did, passing the Preliminary in October 1873 and the Minor in January 1874. After this Mr. Macpherson was for five years with Mr. R. C. Furlay, surgeon, Downie Place and Earl Grey Street, working from 9 A.M. to 10 and 11 P.M. daily, and the inevitable happened—pulmonary trouble, for which he was ordered abroad. He did not go, but instead opened a pharmacy of his own at 97 Dalry Road, Edinburgh, where he is still. Another proof of the wisdom of setting "a stout heart to a stey brae." He did, and got to the top of the hill of health. Mr. Macpherson's business, like himself, is modest; nevertheless the practical work he has done for the benefit of pharmacy has been voluminous. It would take the rest of this column to name the subjects which he has published papers on. The first was on Gregory's powder, communicated to the local Junior Association at a time when the seniors were worried about it not mixing with water. His paper showed why. Besides his work on the practical side of the craft, he has not neglected the political, and in that domain is a perspicuous critic, a hard hitter, and is persistent without lack of breadth. He has been connected with the Trade Association since its inception, and has succeeded hitherto in getting somebody else into the President's chair. When he has leisure (and, if not, he makes it), Mr. Macpherson takes excursions into archaeology, botany, and philology, but if he happens to be in the neighbourhood of a trout stream the fly that he casts is very alluring.

Brief Records.

Gu'ldford Chemists' Association.—At a meeting of this Association, held on January 6, Mr. Clapham (Farnham) in the chair, the Poisons and Pharmacy Act was discussed. The Secretary was instructed to prepare facts regarding the facilities for obtaining agricultural poisons for presentation to the licensing authorities.

G'od Shots.—At the monthly meeting of the Great Yarmouth Pharmaceutical Association held at 156 King Street on Thursday, January 7, Mr. T. B. Male (President) was in the chair, and Messrs. Hill, Palmer, W. G. Poll, Williams, and Richmond were also present. After a short paper by Mr. W. G. Poll on poisons, the Secretary reported the progress made by the rifle team, and mentioned that two of the members had gained prizes at the Christmas shoot—viz., Mr. W. G. Poll and Mr. A. E. Richmond—and that two had won the rifleman's certificate—viz., Mr. H. Palmer and Mr. A. E. Richmond. It was hoped a team would be put in for the Dewar Shield.

Stockport Chemists' Association.

THE annual meeting of this Association was held on January 6, the President (Mr. J. Nicholson) in the chair, and there were also present Messrs. Arnfield, Bowden, Innlis, Orrell, Reach, Westerman, and Watson.

The retiring officers having been thanked, the Treasurer (Mr. J. C. Arnfield) presented a balance-sheet for 1908, which was passed.

THE NEW OFFICERS for 1909 were elected as follows: President, Mr. W. P. Orrell; Vice-Presidents, Mr. J. Nicholson and Mr. J. F. Royce; Treasurer, Mr. J. C. Arnfield; Hon. Secretary, Mr. Arthur D. Watson; Committee, Messrs. Bowden, Wilson, and Westerman.

It was decided to send the usual subscription from the Association to the Benevolent Fund.

It was decided to hold the annual dinner on February 11 at the County Restaurant.

Bradford Chemists' Association.

A MEETING was held at the Royal Hotel, Bradford, on Thursday, January 7, Mr. D. S. Priestley (President) in the chair. There was a good attendance of members. Mr. A. Hanson was down for a paper on the "British Pharmaceutical Codex," and, after wishing all present a very prosperous New Year, he said he could so the more heartily now that they were in

A MORE SETTLED CONDITION

than they had been for some time past. Since the Poisons and Pharmacy Bill had been passed into law they had a clearer idea of what they were entitled to than had been the case for the past twenty years, and he felt sure that their position would be very much improved. He thought every member of the profession ought to feel grateful to the Pharmaceutical Council and to its President (Mr. Rymer Young) for their indefatigable labours on their behalf. The amount of labour that had been given few could realise, and it was principally through the efforts of the Pharmaceutical Council that amendments to the Bill had been passed which considerably altered the position of the pharmacist. Many more articles would have been included in the new Poisons Schedule, and several sections would have had very different effect, if their interests had not been very carefully watched by their representatives. Holding that now that they had some definite lines to work upon, they should make themselves familiar with the working of the new Act, he especially urged that young men who were in the profession should consider and understand this Act, because it was for them in the future to see that nothing was allowed to fall out of gear by apathy and indifference, such as they had deplored in the last fifteen or twenty years. They should do their utmost to prevent licences under Section 2 being issued more than was absolutely necessary, by keeping a stock of the preparations required by agricultural and horticultural people. That might not perhaps trouble some of them in the West Riding very much, but it was of great importance to those in some parts of England and Scotland. He advised them to do all they could to obtain the confidence of the public, and to advertise at every point the fact that their new title, "pharmacist," was the distinguishing title from all others, and one which they had the sole right to use by reason of their having passed a qualifying examination specially fitting them to dispense and sell poisons. Their business was to dispense and make medicines and to work in conjunction with the medical profession, and in order to do this they must be able to prove to the medical man that they knew their business and could make up prescriptions for him guaranteed to contain exactly what he ordered; and that if he did his own dispensing they were prepared to supply the necessary drugs, made-up preparations, powders, pills, etc., in such a manner as to save his time and to provide him more promptly, efficiently, and cheaply with the preparations which he so often obtained from people who made them up in America or London. Dispensing by doctors and prescribing by chemists had long been subjects for complaint, but the complaint would grow less and less because the better-class doctor was beginning to realise that the pharmacist was the proper person to prepare medicines. Mr. Hanson then proceeded to deal with the subject proper of his paper, his remarks being mainly of a commendatory nature, and he exhibited specimens of mixtures made from formulae which have been adopted in the book.

A discussion followed, in which Mr. M. Firth, Mr. R. W. Silson, Mr. R. T. Silson, Mr. Gordon, Mr. W. K. Jackson, Mr. W. E. Metcalfe, Mr. W. H. Smithies, and others took part.

SCHOOL-CHILDREN'S PHYSIC.

Some discussion followed in regard to a practice which is said to obtain in Bradford of the Educational Authority giving certain preparations in large quantities to the children attending the elementary schools. The Council was instructed to make inquiries as to the legality of this proceeding and to report to a future meeting, with a view to some action being taken in opposition to this practice, which, it was stated, was doing harm to the interests of chemists in some degree, and to those of doctors in even greater measure.

Pharmaceutical Society of Ireland.

COUNCIL-MEETING.

THE Council met in the house of the Society, 67 Lower Mount Street, Dublin, on January 6, at 3 p.m., Mr. John Smith (President) in the chair. The other members present were: Dr. J. A. Walsh, Messrs. Thomas Batt, George D. Peggs (Hon. Treasurer), Richard Blair, J. H. Bowden, J. E. Connor, William Doig, J. V. Golden, W. J. Hardy, James Michie, T. N. Moffitt, David M. Watson, and W. F. Wells.

The first subject after the minutes of last Council-meeting had been signed was

THE POISONS AND PHARMACY BILL.

The PRESIDENT, in making a statement with regard to the position now, said that Mr. Wells and he had to proceed to London early in December, as the Bill was down for second reading in the House of Commons, and it was necessary that they should be there to look after the interests of this Society. Unfortunately, the Bill was now on the Statute-book and would come into operation on April 1, but so far as its application to Ireland was concerned one important clause had been omitted—that is, the clause dealing with the control of corporate bodies carrying on business as chemists or druggists. It was scarcely necessary for him to review the course of the negotiations, the matter being now at an end, so far as this particular Bill is concerned, but it was right that they should know the difficulties that had to be contended with in the efforts to secure some benefit under the Bill for licentiates. As the Bill was originally drawn for Great Britain,

THE COMPANY CLAUSE

was largely a question of legislating for Ireland by reference, and the Government Departments, seeing this difficulty and the probable confusion which might arise, were not keen to touch the matter at all. In fact, the Privy Council were not at first prepared to do anything, although quite determined to force on Ireland the objectionable Clause 2, as to the sale of weed-killers, arsenical sheep-dips, etc. The Attorney-General for Ireland ultimately agreed to introduce an adapting clause or clauses for Ireland. He also stated that he would submit the same to companies' representatives, and would only put it down provided he got their consent. The clause as drafted they were not at liberty to make use of, even had they deemed it advisable to approach the companies, after what the Attorney-General said, as the clause had never been approved of by him, and was therefore more or less tentative. As, however, the companies were not interfered with in any way and had the title of pharmaceutical chemist reserved to them against the title "dispensing chemist" reserved to companies in Great Britain, they did not anticipate the Attorney-General would meet with much opposition. When they saw Mr. Samuel, who had charge of the Bill, on December 4, they found that although he had received the suggested clause from the Irish Office he required this Society's representatives to get the consent of the companies before allowing the clause to go in. That placed them in a difficulty, as the time was so short for communicating with the interested parties. Notwithstanding, they were able to get the consent of six of the principal companies in Ireland agreeing to the clause as drafted by the Irish Office. Three or four others wanted to raise the question of their apprenticeship certificates being accepted by the Society, but as the Council had not given them a mandate to deal with that matter they did not feel they were in a position to give way and altogether give away a privilege which had been established by the Courts. They further were of opinion that it was really a question for the regulations after the companies had been legalised and brought inside the Pharmacy Act by the proposed Bill, and that, although they could not give an undertaking on behalf of the Council that such alterations would be made, so far as Mr. Wells and himself were concerned, they would do their best to have the matter arranged. However, the attitude taken up by the representatives of the

CHEMISTS' AND DRUGGISTS' SOCIETY

from Belfast told against their chance of coming to an agreement with the companies' representatives. Repre-

sentatives of the Chemists' and Druggists' Society were in London following up certain claims put forward by them. Their representations gave the Home Office the opportunity, of which it was not slow to avail itself, of dropping the clause for Ireland altogether. The claims put forward by the Belfast gentlemen were such as they could not entertain. They wanted the right given to registered druggists to compound simple prescriptions, which they defined as all prescriptions except those containing poisons; they also wanted the two-years' apprenticeship to a pharmaceutical chemist, which is at present necessary to enable druggists' apprentices to enter for the Licence examination, done away with; they also supported the companies in the attitude some of them took up. Compromise on these lines was, of course, hopeless, and, as he had said, Mr. Samuel dropped the application of Clause 4 of the Bill to Ireland altogether. He was sorry Ireland had not benefited by the recent legislation, as it might be a long time before a like opportunity occurred. Their correct attitude might have been from the first to resist the application of Clause 2, but, as the Pharmaceutical Society were to a certain extent parties to the compact whereby opposition would be withdrawn, provided they got the same clause applied to companies in this country as would be made applicable to Great Britain, they had a right to expect a more liberal treatment. They regretted very much that the clause did not go through, as it would have put the law and the companies on a more satisfactory basis. As there is no combination among the

COMPANIES IN IRELAND

as in England, it was very difficult to secure unanimity, but it was a significant fact that the majority of the limited companies agreed to the adapting clause, and as some of the companies that opposed it were members of the Drug Companies' Association, they were probably well aware of what was going on, as the Pharmaceutical Society made no secret of their intention to have this particular clause applied to Ireland. Perhaps it is unnecessary to give the names of the companies who had agreed to the adapting clause.

Mr. WELLS: I think you ought to name them, and give them credit for their action; because I intend to give the names of the companies who opposed us.

The PRESIDENT said that the companies who agreed to the clause were Messrs. Grattan & Co., Belfast; Messrs. Hamilton, Long & Co., Dublin; Messrs. Fannin & Co., Dublin; Messrs. Boileau & Boyd, Dublin; Messrs. Kiloh, Cork; Messrs. Lester, Cork; and Messrs. Britain, Drogheda. The companies who opposed were Messrs. Haslett, Belfast; Messrs. Dobbin & Co., Belfast; Messrs. Clarke & Co., Belfast; Messrs. Boyd, Lisburn; Messrs. Harrington, Cork; and Messrs. Hayes, Conyngham & Robinson, Dublin. Four of the non-consents were members of the Associated Drug Companies of Great Britain. These people were in a thoroughly good position to know the course of the negotiations, and it was rather rough that they should upset the arrangement at the last moment.

Mr. DOIG: Was it only the non-consents who raised the question of the apprenticeship?

The PRESIDENT: They raised it, and Messrs. Boileau & Boyd also spoke of it, but did not press the matter.

Mr. WELLS said that he thought the licentiates of the Pharmaceutical Society ought to know

EXACTLY HOW THE MATTER STANDS.

A great deal had taken place that had never seen the light of day in the trade journals; and when some of their licentiates complained that the Society did not do its best for them, he thought it was a good thing to show that it had spent a lot of money, energy, and time in the interests of the licentiates. The greatest difficulty they had in the matter arose from the origin of this Bill. The Privy Council in England did not want to touch Ireland at all; but a large trader got hold of an Irish farmer, and the Irish farmer, acting as a puppet in the

hands of the big trader, got hold of Mr. Field, M.P., and he moved the Agricultural Department in the matter. When they went to London the first year they were promised the support of at least half of the Nationalist party, but on this occasion not one of the Nationalist members could be got to put in a word for the Pharmaceutical Society. But for Mr. Field and the Agricultural Department the Bill would not have been applied to this country. It was strange that it was arsenic and tobacco they wanted to deal with. The Pharmaceutical Society never interfered with anyone in the sale of tobacco or its alkaloids; they never prosecuted anyone for it. In 1791 the Government passed an Act, by which it was laid down that

No apothecary in Ireland shall grind, compound, sell, or keep any arsenic in shop or room where he compounds medicine.

There was a penalty of 5*l.* for doing that, and a penalty of 20*l.* for selling contrary to regulations. In 1857 a new Act was before Parliament, in which the penalty for the first offence was 5*l.*, for the second 20*l.*, and for the third 100*l.* penalty, with the additional disqualification that the man for the rest of his natural life should not be allowed to act as chemist and druggist. It is a fact worthy of note that the druggists were the only recognised sellers of poisons in those days. Following these came the Arsenic Act of 1851 and the Pharmacy Acts. The Departmental Committee on Poisons in 1903, which sat on this very Bill, reported :

Your Committee further recommend that the traffic in arsenic should be regulated either by an amendment to the Arsenic Act of 1851 or by more stringent enforcement of the provisions of the 15th section of the Pharmacy Act, 1868.

Under the recent Act, when a person is licensed he can sell arsenic like bread and butter—it can be sold in the same shop. This fact showed how little the Government thought of human life when they placed the sale of poisons in the hands of reckless people.

MR. RUSSELL MADE STATEMENTS

when the Bill was in Committee the accuracy of which he (Mr. Wells) now questioned. Mr. Russell said that the Pharmaceutical Society of Ireland was not opposed to the principle of the Bill (which was an unfounded statement). To a deputation of the Society he gave an undertaking about the distance-limit—that no licence should be granted in a town where there were licensed pharmacists—but to the Committee he stated that this was a matter for the local authorities. Under the Act as passed it was possible seedsmen and other traders in the city of Dublin could get licences, and no doubt many of these people would be looking for licences. At the Committee not a single farmer was brought forward as a witness to show that there was a want of facilities for obtaining sheep-dips in any part of Ireland. But the most astonishing thing in Mr. Russell's evidence was that as to the number of open shops in the city of Dublin and the city of Belfast. He said there were 200 pharmaceutical chemists, chemists and druggists, and registered druggists keeping open shops in the city of Dublin, including 17 in Rathmines, and in Belfast he said there were 283—namely, 93 pharmaceutical chemists, 12 chemists and druggists, and 173 registered druggists. As a matter of fact, there were not more than 100 keeping open shops in Dublin, while in Belfast city and suburbs the number was 104. Mr. Russell's object in giving these figures was evidently for the purpose of showing that Dublin and Belfast had left very few chemists for the rest of the country. If these were the sort of statistics that the Agricultural Department issued, they ought to be slow in believing them.

WITH REGARD TO THE COMPANIES CLAUSE,

England had decided to take the clause, and they of the Pharmaceutical Society of Ireland were in the position that they had either to work with the Englishmen or take the chance of not getting the clause at all for Ireland. The Attorney-General had told the President that if it were possible to draft a clause, and that there was no opposition, he would have it inserted to apply to Ireland; and it was not until the beginning of December that Mr. Samuel told the President and him (Mr. Wells) that unless they got

the companies to agree he would not put in the clause at all. There was very little time left in which to consult the companies, but they sent out circulars at once, and got replies. Messrs. Grattan replied unconditionally, but Messrs. Dobbin raised the question of apprenticeship. The President and he (Mr. Wells) thought they could not give way on that point, but they told the representatives of the companies who raised the question that if they allowed the clause to pass the companies would be under the Act and would have to be registered, and that the President and he would be prepared to ask the Pharmaceutical Council to make it legal to take the apprentice-certificates of companies whose directors were all qualified. Mr. Gibson then came on the scene, at the instance of the Druggists' Association of Belfast, and wanted to be at both sides of the fence at the same time—as representing the druggists and at the same time the interests of the limited companies—and demanded that the Pharmaceutical Society should give way on the apprenticeship question for the benefit of the companies. Mr. Gibson fought to the bitter end on this point. Sir Stanley Harrington also held out, and so did Hayes, Conyngham & Robinson. The latter wanted the Pharmaceutical Society to give an undertaking that the Society would accept their certificates should they at any time have only one director qualified, but the President and he could not give any such undertaking.

THE EFFECT OF THE ACT

would be to do great harm all over the country by the free sale of poisons. They would have to wait until some Government came into power that would pass a more stringent law, and bring Ireland into line with Germany and France and every civilised country in the world in this matter, so that ultimately it might be for the benefit of the druggists. [Here Mr. Wells referred in terms of appreciation to several gentlemen, as subsequently embodied in a resolution of the Council.]

THANKS TO THE DEPUTATION AND OTHERS.

Mr. DOIG said he did not at all sympathise with the action of the Druggists' Association in the matter. He was glad that the "widows clause" was accepted; but he was sorry that the company question was not settled, as he always felt that the large companies in Dublin and Belfast should be recognised in some way or other. He would scarcely go the length of saying that all the seven men in a company should be qualified chemists.

Mr. WELLS: We don't want seven—only the directors; two would do.

Mr. DOIG said he would go for that. Seeing so much opposition he thought the Pharmaceutical Society were better out of it than to give what they wanted, as he was not in favour of what the druggists in the North of Ireland wanted. Where would a druggist's apprentice have an opportunity of learning the business of filling prescriptions if he had not to go to a chemist? He might sell poisons, but he could not fill prescriptions. He did not think it was a reasonable thing for the druggists to ask for that. The President and Mr. Wells had given a great deal of valuable time in the interests of that Society, and although they were not able to carry their point they did their best to accomplish the objects in view. He thought it would be a long time before any Government would attempt to legislate on this subject in Ireland again. He begged to move that the best thanks of that Council be given to the President and Mr. Wells for the work they had done, and he would also mention Dr. Walsh, who had worked hard in a previous year with regard to the Bill.

Mr. WATSON seconded the vote of thanks. It was clear that this whole thing was due to the act of one man, who was interested in the sale of nicotine preparations, and in passing this Act the Government had ignored the only unanimous portion of the Committee's recommendations in 1903. The arsenic portion was the only portion recommended unanimously by the Committee in 1903, and that had been ignored absolutely. It was perfectly evident that even in the large towns seedsmen expected to get licences under the Act. In the evidence given before the Joint Committee it was stated that it was only in outlying districts that more facilities were required for the sale of sheep-dips, etc., but under the Act the local authorities could issue licences everywhere, and it was the duty of chemists

in the big cities to get the local authorities to see that the intention of the Act was carried out in this respect.

Mr. CONNOR asked if the Act of Parliament allows the local authority to give licences in cases where there are abundant facilities for the obtaining of sheep-dips at present.

Mr. BEGGS : Under the Act it can be done.

The PRESIDENT : It rests with the local authority to grant licences. The Regulations have to be framed by the Privy Council and then to be laid before Parliament, which does not meet until February 16; but there is no doubt that if the local authority declare that there are not proper facilities in any district for obtaining these poisons they can register any trader.

Mr. WATSON said that chemists had not been minding this branch of the trade, and they now ought to make it their business to get in stocks of the articles required.

Mr. HARDY said the chemists in the country towns stock these articles.

Mr. GOLDON said a number of traders sell horse-blisters.

Mr. WATSON said that was so, and a number of seedsmen sell nicotine-preparations under an indemnity from the manufacturer.

Mr. WELLS said the chemists in the country towns ought to have some influence with the local authority, so that licences should not be granted indiscriminately.

The vote of thanks to the President, Mr. Wells, and Dr. Walsh was passed unanimously.

The PRESIDENT said he thanked Mr. Doig for his kind and complimentary remarks about Mr. Wells's services and his (the President's) own. It had certainly been a very trying experience, and not one that he wished to repeat. However, he must thank Mr. Doig for his remarks, and coming from Mr. Doig (as a druggist) he appreciated them all the more. Mr. Wells and he worked their best without consideration as to whether the Bill would affect the pharmaceutical chemist or the druggist more seriously—they tried in their negotiations to conserve the rights of both equally. He (the President) thought the Council ought to pass a resolution thanking Mr. Idris and Mr. Glyn-Jones for their courtesy to Mr. Wells and himself during all the negotiations, and he would formally move the resolution.

Dr. WALSH said he had intended to join Mr. Doig and Mr. Watson in the vote of thanks to the President and Mr. Wells for the time and energy they had given to the work of the Society in connection with this Bill. As for his (Dr. Walsh's) part in the matter, he had only given a little service three years ago, and it was a journey of pleasure then, for it was a triumphal march on that occasion. All the same, he thanked the Council for associating his name with the resolution of thanks. His principal object in getting up at this point was with reference to a statement of Mr. Wells that not a single member of the Nationalist party could be got to give them any assistance on the recent occasion. He (Dr. Walsh) said that Mr. Meehan had taken a warm interest in the matter, and had introduced the representatives of the Pharmaceutical Society to many of his colleagues in the Nationalist party, and, as far as he (Dr. Walsh) knew, Mr. Meehan had never wavered in their cause.

Mr. WELLS said that was quite true. Mr. Meehan had taken the greatest interest in the matter on the occasion Dr. Walsh spoke of; but this time it was made more or less a party question, and the Irish Nationalist members were bound to support the Government Bill. He (Mr. Wells) might say that the Act came into operation on April 1; All Fools' Day was certainly a most appropriate day for its coming into operation. (Laughter.)

The resolution, proposed by the PRESIDENT and seconded by Mr. BEGGS, was then passed in the following form :

That the warm thanks of this Council be tendered to W. S. Glyn-Jones, Esquire, B.L., T. H. Idris, Esquire, M.P., and P. MacEwan, Esquire, Editor THE CHEMIST AND DRUGGIST, for their unvarying courtesy and great kindness extended to the President and members of this Council during their visits to London *re* the Poisons and Pharmacy Bill, and for their efforts to secure in the proposed legislation (though unhappily unsuccessful) equitable recognition of the first claims of this Society.

REDUCTION OF FINES BY THE LORD-LIEUTENANT.

The REGISTRAR (Mr. Arthur T. Ferrall) read a letter from the Under-Secretary, Dublin Castle, intimating that his

Excellency the Lord-Lieutenant had reduced the fines imposed upon Thomas Connolly, of Carrick-on-Suir, from 5*l.* in each of two summonses to 1*l.* in each; and a further letter was read from the Under-Secretary stating that the fines imposed upon Patrick J. McCrann and Edward Kelly, of Lanesborough, county Longford, had been reduced to 1*l.* and 1*s.* respectively.

Mr. WELLS said these prosecutions cost the Society a lot of money, and when the Magistrates imposed fines they were wiped out on application being made to the Lord-Lieutenant. He thought the Society ought to make out their bills in these two cases, and forward them to the Castle, asking the Lord-Lieutenant if he could help to pay them.

The PRESIDENT : And these were actually police prosecutions.

Mr. DOIG : How much is the Society out of pocket over the two cases?

The PRESIDENT : About 30*l.*

Mr. WATSON : Does anybody advise the Lord-Lieutenant in these cases?

Mr. CONNOR : I suppose the Lord-Lieutenant knows nothing at all about them. It is the Under-Secretary who does the work.

Mr. BEGGS : Where the law is broken I would be in favour of getting up the evidence and sending it to the Castle, and saying to the authorities there, "Carry on the prosecutions yourselves."

After further discussion it was decided that a deputation should wait on the Lord-Lieutenant in connection with the whole matter of the reduction of fines and of the great cost of prosecutions by the Society. The President, Mr. Wells, and Mr. Watson were appointed as the deputation.

Mr. WELLS said that a deputation had gone to a previous Lord-Lieutenant on the subject, and no more fines were reduced during that nobleman's occupancy of the position.

NEW YEAR'S GREETINGS

were received by the Society from the President, Vice-President, and Council of the Pharmaceutical Society of Great Britain, and from the Pharmacy Board of Queensland.

RECOGNITION OF SCHOOLS BY THE SOCIETY.

Mr. MICHIE, in accordance with notice, moved to rescind the resolution of April 5, 1893, *re* recognition of technical schools, viz. :

Ordered that the Council does not see its way at present to recognise any more schools.

He was anxious to have it rescinded, so that the Council might be able to consider applications from provincial schools; the Council could not consider such applications at present, whether they were deserving or otherwise. He had in his mind a recent application from the Londonderry school, which was not granted because of this resolution being on the books.

Mr. BLAIR seconded the motion, which he took, not to refer to schools in the city of Dublin, where the Society had its own school, but to the country technical schools, such as Londonderry, Galway, and Limerick. If these schools sent forward applications for recognition, the Council would be in a position either to grant or to reject them.

Mr. BEGGS said they would have applications from all the schools in the small rural districts pouring in for recognition, and the Society would want an inspector to go down and revise the syllabus of these schools.

Mr. BLAIR said they would not have technical schools, with laboratories costing 500*l.* or so, in small villages.

Mr. HARDY said the Society ought not to be bound by a hard-and-fast resolution of that kind. The rescinding of it did not bind the Society to accept any school; it only left the door open.

Mr. WELLS did not think the resolution Mr. Michie wanted rescinded was operative at all. Within the last three months they had added a school to their list—the Cork Technical School.

Mr. BLAIR said, No. It was only an additional class in the school they had accepted—the Cork school had been previously recognised.

The PRESIDENT said so far as the rescinding of the resolution was concerned, it did not bind the Society to anything.

ELECTIONS AND NOMINATIONS.

On the motion of Mr. WELLS, seconded by Mr. GOLDON, Mr. Louis B. Smyth, B.A., Senior Moderator (Large Gold Medallist) in Natural Science, was elected Professor of Botany, in the room of Mr. A. H. Laird, B.A., resigned. Mr. Smyth had been acting *locum tenens* in the position recently.

The following were elected members: Mr. Samuel Fleming, Ph.C., the Medical Hall, 81 Duncairn Gardens, Belfast; Mr. Thomas Lyster Foster, Ph.C., 108 Patrick Street, Cork; Mr. James Dundee, Ph.C., Malone Pharmacy, 95 University Road, Belfast; Mr. James Reardon Moloney, Ph.C., 42 Queen Street, Nenagh.

Mr. Michael Condon, R.D., Hospital, Knocklong, was elected an associate druggist.

Mr. John Black, 56 Church Place, Lurgan, was nominated as a member, and Mr. Samuel Hoocy, L.P.S.I., Volksrust, Transvaal, as associate druggist.

The proceedings then terminated.

PRELIMINARY EXAMINATION.

John Mockler, Josephine Hearn, Mark Duan, Thomas James White, and Thomas Leahy have passed. Twenty-one candidates were rejected.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

A New Artificial Peroxydase.—According to E. de Stöcklin, tannate of iron acts as a peroxydase, attacking monophenols with especial ease.

Longevity of Seeds.—Dr. A. J. Ewart in a recent article published in the "Proceedings" of the Royal Society of Victoria, deals with the effect of age on the vitality of seeds. The summary of the tests shows that many leguminous seeds maintain their vitality for a long period, while few outside this family possess this macrobiotic character. An impermeable cuticle is a market feature in the long-lived seeds.

Boiling-point of Sulphur.—N. Eumorfopoulos, in a paper communicated to the Royal Society, gives his re-determination of the boiling-point of sulphur, using a slightly modified Callendar's constant-pressure air thermometer ("Proc. Roy. Soc.," vol. 50, p. 247). Using the Regnault-Broch formula, which he prefers, for the expansion of mercury, the mean value obtained is 445.62°. According to Chappin's formula the corresponding value would be 445.8°. A re-determination of the absolute expansion of mercury has been arranged for by Professor H. L. Callendar at the Royal College of Science, and it is hoped to be applicable in defining the above physical constant.

Indicator for Centinormal Alkali.—E. Rupp and R. Livose ("Ber. Deut. Chem. Ges.," vol. xli, No. 16) state that a compound which they term methyl-red surpasses hæmatoxylin in its sensitivity to alkalis. It is prepared by diazotising an alcoholic solution of amidobenzoic acid, by adding concentrated hydrochloric acid, which is followed by the addition of sodium nitrite in the usual way. Freshly distilled dimethyl aniline is added, and the mixture heated on a water-bath for half an hour. The compound is separated and treated with hot glacial acetic acid. Water is added to the boiling liquid until a turbidity is produced, and on cooling violet needles of methyl-red crystallise out. The substance appears to be an azo compound of o-amido-benzoic acid and dimethyl aniline. The indicator is pale yellow in alkaline or neutral solutions and red violet in acid.

The Action of Acid and Alkali on Animal and Vegetable Cells.—Professor B. Moore and Dr. H. E. Roof state that cells are very susceptible to changes in reaction of their surrounding medium. Echinus eggs, hyacinths, and newts have been kept in solutions of various acids and alkalis, and mammals have been fed with large quantities of acid and alkaline phosphates. Isolated cells are more susceptible than the more complex organisms which can protect themselves by neutralising the excess of acid or alkali. Even the slightest acidity exerts an inhibiting effect on all growth, the nuclei disappear, and the cells degenerate. Alkali also causes stoppage of growth at quite low concentrations, but still weaker strengths show a stimulating effect. Mammals, with large doses of both acid and alkaline phosphates, show degenerative lesions, but the actual effect of acid or alkali is probably masked by excretion and neutralisation. The "reactivity" of mammalian blood serum can be altered by large doses of phosphates.

Trade Report.

NOTICE TO BUYERS.—The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of drugs and oils vary greatly, and higher prices are commanded by selected qualities even in bulk quantities. It would be unreasonable for retail buyers to expect to get small quantities at anything like the prices here quoted.

42 Cannon Street, London, E.C., January 14.

BUSINESS has now been fully resumed on the markets, but as yet the general demand has been somewhat disappointing. The chief alterations include a decline of 2s. 6d. in quicksilver and a further advance in the citrates. Citric acid is a little easier, but tartaric acid from the makers is firmer. Lemon and bergamot oils are easier and unsettled. Lime-juice has been more inquired for, and ergot is firmer. Opium is firm, especially Persian, but quinine continues quite inactive. The principal alterations as follows:—

Higher	Firmer	Easier	Lower
Ammonia sulphate	Aloes (Cape)	Aloes (Curaçao)	Areca
Cardamoms	Caraway-seed	(gourds)	Quicksilver
Citrates	Ergot	Bergamot oil	Shellac
Wax, bees'	Gum arabic (Bushire)	Lemon-juice	
	Menthol	Lemon oil	
	Resin	Orange-peel	
	Tartaric acid	Pimento	

Cablegrams.

SMYRNA, January 12:—The price of opium has advanced by 6d. per lb. The United States continue to buy, and still higher prices are expected; purchases are recommended.

NEW YORK, January 14:—Business in drugs is fair. Opium is quiet at \$4.35 per lb. for druggists'. Refined camphor has declined 2c. per lb. Curaçoa aloes is easier at 7c. per lb. Peppermint oil is steady at \$1.45, and cascara sagrada at 8½c. is nominal. Podophyllum is firmer at 7c. Menthol has advanced to \$2.20, and jalap is easier at 35c. Bergamot oil is nominal at \$11 per lb.

Heavy Chemicals.

The business of the heavy-chemical market is now beginning to assume a more normal tone, and fair transactions, both in main and miscellaneous products, have been concluded since last writing. At the same time many consumers are not yet in full swing again, and the market can therefore only be described as being quiet. It is rather early to judge yet as regards deliveries against contracts, but these have probably amounted to a fair average.

SULPHATE OF AMMONIA.—Demand is very fair and prices are firm. Present nominal figures: Beckton forward 11½. 15s. to 11½. 17s. 6d., Beckton terms 11½. 10s., London 11½. 10s., Leith 11½. 15s., and Hull 11½. 10s. to 11s. 12s. 6d. For February delivery a premium of at least 2s. 6d. to 5s. per ton would be required.

RECOVERED SULPHUR is in very good inquiry and maintains a firm tone at 5½. to 5½. 5s. per ton, free on rails in bags.

BICHROMATES OF POTASH AND SODA steady. Bichromate of potash, English and Scotch deliveries, 3½d. per lb. less 2½ per cent., and export 3½d. per lb., net, f.o.b. Glasgow. Bichromate of soda, English and Scotch deliveries, 3½d. per lb. less 2½ per cent., and exports 2½d. per lb. net f.o.b. Glasgow.

LEAD PRODUCTS are taking a firmer tone than they have latterly had. White acetate of lead 24½. to 24½. 5s., and brown acetate of lead 19½. to 19½. 5s. per ton. Nitrate of lead 23½. 10s. to 24s. per ton, all less 2½ per cent. Glasgow. Red lead 15½. 15s., and white lead 16½. 10s. per ton Tyne.

MAGNESIUM SALTS continue in fair consumptive request and are steady. Sulphate 62s. 6d. to 65s. per ton, chloride 67s. 6d. to 70s. per ton, and carbonate 37s. 6d. to 40s. per cwt.

ZINC SALTS show no change either in value or demand. Zinc sulphate crystals 6½. 15s. to 7½. per ton, and zinc chlorate solution, 100° Tw., 6½. 2s. 6d. to 6½. 7s. 6d. per ton.

Manchester Chemical-market.*Manchester, January 11.*

Attendance on the chemical side of the exchange was fair, considering the holiday season has only just closed and works in Lancashire have not yet quite got into thorough working order. Heavy chemicals show little change, but the lower prices of bleaching powder are causing increased demand, especially for export. The quotation is 4*l.* to 4*l.* 5*s.* per ton, softwood casks, on rails. Ammonia alkali is steady. The position of miscible naphtha is attracting increased attention, consequent on scarcity. Producers, except those under contract, are holding off, and the lowest figure here is 4*s.* per gal. for delivery commencing April-May. Recovered sulphur is higher at 4*l.* 10*s.* to 4*l.* 12*s.* 6*d.* on rails at works. White powdered arsenic is scarce and firm at 14*l.* to 14*l.* 10*s.* per ton. More inquiry is reported for caustic and carbonate of potash, and there is also a better feeling in acetate of lime. Acetic and oxalic acids are dull and in buyers' favour. Sulphate of copper closes steadier, and is quoted 21*l.* to 21*l.* 10*s.* per ton, Manchester, for best brands.

ACID, CITRIC, still sells in fair quantities, but the tone is a shade easier at from 1*s.* 7½*d.* to 1*s.* 9*d.* per lb. for foreign or English according to seller. When matters assume a more normal aspect in Sicily it will be found that a considerable reserve stock of citrate exists in the island, in addition to which new citrate is being offered.

ACID, TARTARIC, is firmer, the lowest price for foreign now being 10½*d.*, and English is 10¾*d.* to 11*d.*, makers being chary of quoting for forward delivery.

ANISEED.—Russian is steady at 18*s.* 6*d.* to 19*s.* per cwt. on the spot. The quotation for shipment is 17*s.* 6*d.* c.i.f. terms. Spanish is quoted 40*s.* per cwt.

ARROWROOT.—Quiet. At auction 325 barrels of St. Vincent were offered and bought in at from 2½*d.* to 3¾*d.*, according to quality.

ASAFETIDA.—Nothing was offered at auction, but several small lots recently arrived will shortly be offered; privately, the last business was done at from 60*s.* to 40*s.* for the medium and lower qualities. At auction five cases of low sold without reserve at 3*s.* 6*d.* per cwt. if pay charges.

CANARY-SEED is firmer for the cheaper qualities, but the better kinds are unchanged. Turkish and River Plate have been sold at 31*s.* 6*d.* to 33*s.*, and good Morocco at 34*s.* per quarter.

CARAWAY-SEED is firm and rather dearer, Dutch having been sold at 39*s.* per cwt. f.o.b. Holland and 41*s.* on the spot.

CHILLIES.—At auction 193 bags of Japan offered, and a few sold at 48*s.* for fair, but dark; 86 bales of Mombasa were bought in at 30*s.*

CINCHONA.—The shipments from Java to Europe during December amounted to 1,570,000 A. lb., against 1,190,000 A. lb. in 1907, 564,000 A. lb. in 1906, and 858,000 A. lb. in 1905. The total shipments during the twelve months ending December were 15,677,000 A. lb., against 17,212,000 A. lb. in 1907 (or 1,535,000 A. lb. less), 13,516,000 A. lb. in 1906, and 15,399,000 A. lb. in 1905. Further particulars in regard to next week's Amsterdam auction show that the 8,573 bales and 849 cases weigh 823,856 kilos., and contain the equivalent of 46,267 kilos. quinine sulphate, or 1,619,345 oz. The average percentage of quinine sulphate in the manufacturing bark is 6.02 per cent., as compared with 6.29 per cent. at the December auction. Of the above 9,422 packages, 137,260 kilos. consists of druggists' and 686,596 kilos. manufacturing bark, containing 4,943 kilos. and 41,324 kilos. of quinine respectively. An auction of 131 bales of Java and seven bales of East Indian was held in London on Tuesday, the latter only being disposed of publicly at 4½*d.* for Ledger stem chips and 3½*d.* for root; subsequently about 80 bales of Java were sold privately, including Ledger root at 4½*d.* and hybrid stem chips at 2½*d.* In the drug auction 42 serons of Huanuco were bought in at 6½*d.* for the sound, a bid of 5¾*d.* being refused.

CITRATES.—The makers have again advanced their prices and now quote ferri et ammon. cit. and potassium citrate at from 1*s.* 9*d.* to 1*s.* 10*d.* per lb. as to quantity.

CLOVES.—At auction three cases of Penang being bought in at 10½*d.* for good picked, and 60 bales of good fair Zanzibar at 5½*d.* Privately business has been slow and unimportant,

closing with sellers of March-May delivery at 5½*d.*, and January-March shipment at 4¾*d.* per lb. c.i.f.

CORIANDER-SEED is in fair demand, with sales of Morocco at 10*s.* 6*d.* to 11*s.* 6*d.* per cwt. according to quality.

CUMIN-SEED is steady, and in more demand at 42*s.* 6*d.* to 45*s.* per cwt. for Malta and Morocco.

ERGOT.—There appears to be little on the Hamburg market, judging from the paucity of offers; spot sales of Russian have been made at up to 1*s.* 2½*d.* to 1*s.* 3*d.*, but 1*s.* 4½*d.* now seems to be the lowest, and the supplies are well concentrated. In auction four bags very small lean sound Russian were held at 1*s.* 4*d.*; six bags of bold sifted Spanish sold at 1*s.* 3*d.*

FENUGREEK-SEED is neglected, but the quotation is unaltered at 9*s.* 6*d.* per cwt. for Morocco on the spot.

GALLS.—Persian are steady, with blue offering at from 62*s.* 6*d.* to 65*s.*, green at 45*s.* to 47*s.* 6*d.*, and white at 42*s.* 6*d.* per cwt., spot. Primary markets have advanced owing to small supplies, and there are no offers under 59*s.* c.i.f.

GINGER.—At auction 246 barrels of Jamaica offered, and 65 sold without reserve at from 48*s.* to 49*s.* for fair bright. Of Cochin and Calicut about 500 packages were bought in, including unsorted native cut at 52*s.* 6*d.* to 55*s.*, bold brown Calicut rough at 42*s.*, and washed rough Cochin at from 35*s.* to 36*s.*

GUM ARABIC.—Bushire so-called insoluble sorts have recently been sold at higher prices, including inferior at up to 12*s.* 6*d.*, fair to good at from 14*s.* to 16*s.* per cwt., while selected amber is quoted 22*s.* 6*d.*

HELLEBORE.—High values are anticipated shortly when the chief demand sets in; meanwhile Trieste offers white root at 17*s.* 6*d.* c.i.f. London.

INSECT-FLOWERS continue in upward tendency in Trieste, and in one quarter 79*s.* 6*d.* per cwt. c.i.f. London is quoted.

LINSEED is firm at 48*s.* to 52*s.* per quarter for good clear quality.

OIL, BERGAMOT, like lemon, has eased somewhat, small sales having been made at from 40*s.* to 45*s.* per lb., and it is doubtful if the extreme figure of 60*s.* so glibly talked of has been paid.

OIL, COD-LIVER, is quiet but firm, good brands of Lofoten non-congealing oil being obtainable at 64*s.* c.i.f., but up to 67*s.* is asked in some quarters. Our Bergen correspondent writes on January 11 that the firmer tendency recently noted still prevails, and finest non-congealing Lofoten cod-liver oil has been sold up to 64*s.* per barrel c.i.f. Bergen. The first reports from the North promise a good catch of cod, containing a very rich liver. The exports from Bergen up to date amount to 383 barrels, against 227½ barrels at the same date of 1908. In auction 20 casks of Newfoundland sold without reserve at 1*s.* 9*d.* per gal., and ten barrels good Norwegian 1908 crop (Araether's) were bought in at 65*s.* per barrel.

OIL, EUCALYPTUS.—The market still remains very bare of *Globulus*, for which 1*s.* 6*d.* is said to have been bid and refused. Fair arrivals of other descriptions of Australian B.P. oils have taken place, but they are being readily absorbed, as stocks are very low; from 1*s.* 1½*d.* to 1*s.* 2½*d.* per lb. is quoted according to percentage. In auction 26 cases B.P. oil were held at 1*s.* 2*d.* per lb.

OIL, LEMON, still continues the principal topic of discussion in market circles. A new element has, however, been introduced into an already obscure and difficult situation by what is looked upon as an organised attempt to "bear" the market by the issue of circulars from Palermo suggesting bids in the neighbourhood of about 3*s.* 6*d.* to 4*s.*, but such bids are not likely to lead to business. Indeed, one Palermo house to which these circulars are attributed have not confirmed orders for quantity which have been sent them at a much higher figure. Meanwhile these tactics have unsettled the market here, and everybody is in a quandary. Prices are now very irregular, varying considerably as to idea of holder. An occasional seller may be found at 10*s.*, and some say 12*s.* 6*d.* to 15*s.*, but until *bona-fide* offers come forward these prices are more or less nominal, buyers being shy.

ORPUM.—The London market remains firm with a small business, which includes Turkey druggists at up to 13*s.* 9*d.*, and for 11 per cent. 14*s.* has been refused; small

sales of Tokats have been made at from 15s. to 16s., and for fine 17s. has been paid, but owners now ask 18s., supplies being exceedingly small. Hadji Kenu is quoted 17s. to 18s., Persian is very firm, with sales at from 14s. to 14s. 6d., but for 11.75 per cent. 15s. 6d. has been paid.

A review of the Smyrna opium-market during December states that the sales consisted of 257 cases, the bulk of which were for U.S.A. account. About two-fifths were old crop, and the prices paid were from 12s. 6d. to 13s. for new and 13s. 6d. to 13s. 10d. for old, while a few baskets of fine Yerli changed hands at the equivalent of 14s. 6d. During the greater part of the month severe cold weather somewhat damaged the young plants, but subsequently milder conditions prevailed, thus enabling the farmers to resume their sowings. The arrivals in Smyrna to date amount to 1,978 cases, against 1,328 cases at same period last year, and in Constantinople to 1,763, against 403 cases. The stock is about 2,345 cases, against 2,055 same date last year, and in Constantinople 178 against 206 cases.

A Smyrna correspondent writes on January 2 that the sales amount to 116 cases for America at the equivalent of 13s. 9d. for old-crop Karahissar and 13s. 4d. for new crop, and a few of the Yerli have sold at from 14s. 4d. to 14s. 7d. Pressure from the banks obliged holders to become more obliging, and the closing of accounts for the end of the year will probably induce fresh sales at current prices. The absence of purchasers for ordinary qualities will paralysed for some time any exorbitant demands. The arrivals amount to 1,978 cases, against 1,328 cases last year.

During all the month of December (writes a Smyrna correspondent on January 2) the demand has not slackened, so that holders obtained the prices they asked, which were higher after each transaction. The details of the sales are as follow: Fourteen cases new Karahissar t.g. at the equivalent of 11s. 5d. to 11s. 11d., 77 cases new extra ditto at 11s. 11d. to 12s. 7d., 57 cases ditto at 13s., 8 cases Yerli at 12s. 3d. to 14s. 2d., and 111 cases old extra Karahissar at 13s. 6d. per lb. c.i.f. Market closed very firm at prices ruling.

PEPPER.—No supplies were offered at auction, and privately 3½d. is quoted for fair Singapore and for January-March shipment 3½d. per lb. was quoted, at which business has been done. Of white pepper at auction 120 bags of Singapore were bought in at 5d. to 5½d. for fair to good fair; 15 bags of Ceylon sold at from 4½d. to 4½d. Privately fair Singapore is quoted on the spot at 4½d., and the sales for arrival include January-March shipment at 4½d., and March-May at 4½d. c.i.f. d/w.

PIMENTO.—Easier at auction, when 300 bags offered and 115 sold at 2d. per lb. for fair.

QUICKSILVER.—On Monday, importers reduced the price by 2s. 6d. to 8l. 7s. 6d., and in second-hands 6d. less is quoted. Mercurials are unaltered. Appended are Mr. Alex. S. Pickering's annual statistics:

—	Imports	Exports	Price	
			Highest	Lowest
	Bottles	Bottles	£ s. d.	£ s. d.
1908 ...	43,605	22,348	8 10 0	7 12 6
1907 ...	39,448	29,465	8 5 0	6 15 0
1906 ...	38,823	27,712	7 7 6	6 17 0
1905 ...	34,034	21,330	7 15 0	7 1 0
1904 ...	33,218	27,277	8 5 0	7 14 0
1903 ...	31,886	18,846	8 15 0	8 5 0
1902 ...	33,192	19,519	8 17 6	8 14 6
1901 ...	35,341	26,863	9 2 6	8 17 6
1900 ...	32,725	25,869	9 12 6	9 2 6
1899 ...	51,696	32,239	9 12 6	7 15 0

Estimated consumption United Kingdom, 13,000 bottles per annum.

QUININE.—The Amsterdam Quinine-works held an auction on January 8, when 1,417½ kilos. of Ed. II. (50,000 kilos.) were offered and sold at an average price of 11.06½fl., against 11.01fl. per kilo. at the previous auction. The next auction will take place on January 29, and will consist of 50,000 oz.

RESIN is dearer at from 8s. 4½d. to 8s. 6d. for common strained on the spot.

SHELLAC.—At auction on Tuesday a large supply was offered, of which the bulk was without reserve. Prices were irregular, but lower. Altogether 820 cases offered,

and 542 sold, comprising second orange at 116s. to 120s. for fine free, fine S.S.O. matted at 100s. to 102s., broken pale and triangle J 103s., fine matted to blocky reddish 91s. to 101s., free and blocky pieces 84s. to 85s., ordinary small livery TN 73s., matted ditto 68s. to 69s., mixed blocky ditto 65s. to 66s., common dark block 59s. to 61s., and ordinary flat red 69s. to 70s. Of 129 chests button 116 sold without reserve, including fine Angelo three at 100s., fair BL 1 slightly resinous 81s., weak and cakey ditto 73s. to 74s., very weak resinous 68s. to 54s., No. 2 blocky weak 61s., and very weak 45s. Of 202 chests Garnet 92 sold without reserve, comprising hard AC block at 74s. to 75s., very dark cakey to blocky GAL at 64s. to 65s., and Ralli second common weak 45s. to 46s. Privately a fair spot business has been done on the basis of 75s. for fair free TN orange, and for arrival the sales include TN for January-February shipment at 72s. to 72s. 6d. c.i.f., but sellers ask 74s. at the close.

STRAUMONIUM.—The Trieste market is well supplied with herb, shippers of which ask 28s., and for rubbed the quotation is 32s. 6d. c.i.f. London.

TURPENTINE closes at 30s. per cwt. for American on the spot.

UVA URSI leaves on the Trieste market are tending upwards, as stocks there are small; 15s. c.i.f. London is quoted.

London Drug-auctions.

The sales were resumed to-day after an interval of six weeks. Supplies had accumulated in the interim, but there was a fair demand, mostly from the home trade and the Continent. The following were the chief alterations: Cape aloes was fully firm, but dearer for medium grades; fine Barbados liver in gourds was lower, and Curaçao in boxes was neglected, Areca is tending easier, Buchu is fairly steady, and full prices were paid for Sumatra benzoin, while Siam, which is exceedingly scarce, realised extreme prices. Cardamoms were in good demand at an improvement of 1d. to 2d. Cascarrilla and cascara sagrada were in heavy supply and neglected. The same applies to dragon's-blood and gamboge, the prices of which, in view of the accumulation of stocks, are tending easier. Ipecacuanha is firmer than previous auction prices, but myrrh is neglected. Rhubarb is quiet but steady, and the chief descriptions of sarsaparilla met with a ready sale at fully steady prices; Tinnevely senna sold steadily, but Alexandrian, large quantities of which were offered, tended easier; bees'-wax was in good inquiry, and prices generally were firmer, especially for Mombasa. The following table shows the amount of goods offered and sold:

	Off-red Sold		Offered Sold		
Aconite (Ind.)	22	0	Cocculus ind.	40	0
(Jap.)	10	0	Colocyynth-pulp	53	20
Agar-agar	10	0	Coriander	50	0
Aloes—			Cubeb	35	0
Cape	78	78	Cutch	36	1
Curaçao (bxs.)	65	0	Cuttlefish-bone	42	6
(gourds)	1071	28	Dragon's-blood	50	0
Socotrine (kegs)	10	0	Elemi	44	0
Zanzibar (skins cs.)	7	5	Ergot	30	6
Ambergris	11	0	Galangal	20	0
Aniseed	56	0	Gamboge	57	0
Ammoniacum	6	0	Gentian	27	0
Annatto-seed	65	21	Gum arabic	41	0
Araroba	6	0	Honey—		
Areca	82	10	Australian	9	0
Argol (Cape)	35	0	Calif	45	0
Asafetida	25	5	Honolulu (cs.)	364	0
Balsam—			Jamaica	51	5
Copaiba	3	0	St. Lucia	5	0
Tolu	6	6	West Ind.	13	13
Benzoin (Siam)	9	2	Ipecacuanha—		
(Sumatra)	213	54	"Bahia"	2	0
Buchu	42	13	Cartagena	4	3
Calumba	136	0	Matto Grosso	27	7
Camphor (Ch. cr)	10	0	Minas	12	0
(slabs), cs.	2	0	Jalap	4	0
½-oz. tabs.	9	0	Kamala	3	0
powder	9	0	Kino	24	0
Canella alba	19	3	Kola	23	16
Cannabis indica	27	0	Lime-juice	36	15
Cantharides (China)	5	0	Mastic	5	*2
Cardamoms	276	191	Matico	22	0
Cascara sagrada	630	0	Milk-sugar	26	0
Cascarrilla	77	0	Musk (Cabard.)	1	0
Cinchona (Huanuco)	42	0	Musk-seed	1	0
Coca-leaves	176	60	Myrrh	133	3
Cochineal	16	0	Nux vomica	824	20

Offered Sold			Offered Sold		
Oil—			Seedlac		
camphor	33	16	Senna—	95	0
cassia	12	0	Alex.	327	65
cinnamon	23	0	Macca	2	0
cod-liver (Newf.)	20	20	Tinnevely ..	300	296
(Norw.)	10	0	Soy	20	0
eucalypt.	26	0	Squill	39	9
geranium	2	0	Sticklac	111	0
lemongrass	55	9	Stramonium ..	20	0
lime	10	8	Stroph-nthus ..	6	0
orange	17	1	Tamarinds	155	0
patchouli	6	0	Tonka beans	6	1
peppermint	5	5	Tragacanth	211	11
Olibanum	42	0	Turmeric	370	0
Orange-peel	65	22	Vegetable-fat (cs.)	50	0
Papain	2	0	Wax (bees')—		
Pathuli	48	0	Australian	9	9
Pareira brava	42	0	East African ..	30	30
Plumbago	14	0	East Indian	74	0
Rhubarb (China)...	112	9	Egyptian	18	18
Sandalwood	33	0	Jamaica	39	8
Sandarac	17	0	Madagascar ..	121	4
Sapan wood	7	0	Morocco	3	0
Sarsaparilla—			Spanish	33	*4
Grey Jam.	16	16	West Indian	1	1
Lima	11	11	Zanzibar	32	23
Native	19	13	Wax (veg.)	80	*10
Scammonium	1	0	Wood oil	50	0

* Sold privately.

ALOES.—The first parcel of twenty-four cases Cape aloes sold at full-up rates, Mossel Bay on 20 per cent. tares realised 29s. to 29s. 6d. for good bright hard firsts, 28s. for fair bright hard, 27s. for dullish seconds, 26s. for dull and drossy, and 21s. 6d. for inferior mixed with dirt. The second parcel of 58 cases also brought fully previous prices, but the medium qualities were dearer and very irregular. Good bright hard sold at 29s. to 29s. 6d., fair bright ditto, part slightly drossy, 28s. to 28s. 6d., dull and very drossy 26s. 6d. Eighteen cases Algoa Bay (estimated tares) realised 26s. to 27s. 6d. for fair to good bright hard firsts. Of Zanzibar, seven cases in skins were offered, of which a part sold at 85s. for fair hepatic, and for soft ditto 77s. 6d. was paid. Fine hard pale liver was bought in at 90s., a bid of 82s. 6d. being refused.

ANNATTO-SEED.—Sixteen bags good bright Ceylon sold at 4½d., at which price further lots were available.

ARECA.—Ten bags of fair Ceylon sold at 13s., being a shade easier.

BALSAM TOLU.—Steady. Six cases containing large tins sold at 10d. per lb. for slightly drossy and a little softish.

BENZOIN.—The chief sales consisted of a string of 43 cases, which sold at from 7l. 5s. to 7l. 10s. for good fair almondy Sumatra seconds, 6l. 15s. to 7l. for fair ditto, and 5l. 10s. to 5l. 15s. for ordinary false packed seconds; another broker sold 4 cases good almondy seconds at 8l., and 7 cases slightly false packed ditto realised 7l. 15s. Two cases Siam sold at 27l. per cwt. for medium and bold pale free well-flavoured Siam almonds.

BUCHU fairly steady and in demand. Some half-dozen bales of good green small round, probably new crop, sold at the price of 10½d.; 9d. to 10d. was paid for fair greenish round, rather stalky; long greenish was held at 5½d., and bronzy "ovals" at 4½d. per lb. A further lot of 16 bales offered and partly sold at from 8d. to 9d. for small round greenish stalky, and 7½d. for yellowish.

CALUMBA.—A bid of 10s. was refused for fair sorts, the limit being 15s.

CAMPHOR.—Nine cases of camphor powder were held at 1s. 9d., a bid of 1s. 7d. being refused. For 11 cases 2½-lb. Japanese slabs 1s. 6d. was wanted, and ¼-oz. tablets (9 cases) were held for 1s. 11d. Privately 1-oz. are quoted 1s. 6d. spot and 1s. 5½d. c.i.f.

CANELLA ALBA.—Three bales of fair pale sold at 50s. per cwt. subject.

CARDAMOMS met with a ready sale at a general improvement of 1d. to 2d., seed also appreciating 1d. per lb. The following prices were paid: Ceylon-Mysore, extra bold good palish to pale, 2s. 4d. to 2s. 7d.; good bold palish to pale, 2s. 1d. to 2s. 3d.; bold and medium palish to pale, 1s. 10d. to 2s.; small and medium pale, 1s. 8d. to

1s. 9d.; very small, 1s. 6d.; brown and split, 1s. 3d. to 1s. 6d.; small brown, 1s. 4d.; splits, 1s. 5d. to 1s. 6d.; fair green unclipped, 1s. 5d.; seed, 1s. 11d. Ceylon-Malabar, small and medium, part mouldy, 1s. 5d. Three cases good Native Wild sold at 1s. 10d. per lb.

CASCARA SAGRADA.—A parcel of 329 bags imported in April 1908 was bought in at 40s. per cwt., 38s. being the limit; 100 bags of 1904 crop were bought in at 42s., a bid of 40s. being refused.

COCA-LEAVES.—A parcel of 139 bags offered and partly sold at 4d. per lb. for very broken Ceylon-Truxillo; 34 of Ceylon-Huanuco also sold at from 5d. to 8d. as to colour.

COLOCYNTH.—Fifty-three bales of Turkey pulped were offered, of which part had been sold privately; 7½d. was wanted for fair, and 2 bales of common brown found a buyer at 3½d.; no apple offered.

CUTTLEFISH-BONE.—A sale of 6 cases of dull broken bone was made at 2¾d. per lb. subject to confirmation.

DRAGON'S-BLOOD.—A large quantity was offered, and in consequence buyers held aloof, anticipating easier prices later. For fine native-picked reboiled Singapore lump a bid of 10l. 10s. was refused, 11l. being wanted, and for fair seedy lump a bid of 7l. 10s. was refused.

GAMBOGE was quite neglected, and with heavy supplies on offer buyers anticipate easier prices. Fair bright slightly blocky Siam pipe was bought in at from 14l. 10s. to 15l.

HONEY.—Quiet. Honolulu is selling privately at 30s., but there were no bids for 269 packages offered at auction. A few packages Jamaica sold at 23s. for brown set, but the bulk of the offerings were too highly limited. Nine cases of fair liquid amber from Belize realised 23s. to 24s.

IPECACUANHA was about 2d. per lb. higher than the previous auction, four bales of good bright natural Matto Grosso realising 5s. 2d.; from another catalogue ordinary lean dull sound was held for 5s. 3d., and three bales of sea and slightly grease-damaged sold at 4s. 5d. to 4s. 11d. Cartagena was steady, three bags realising 4s. 5d. for fair and 4s. for common mixed. Seven packages of ipecacuanha arrived from Panama per *Atrato*, also six from Rio to Liverpool.

JALAP.—For 4 bags of small to bold tuber, analysing 7 per cent. of resin, 1s. 8d. was the buying-in price.

KINO.—Two cases of good Cochin grain were held at 1s. 5d. per lb. Two cases of African kino were bought in at 10d. per lb.

KOLA.—Three bags of fair Jamaica sold at 1¾d. per lb., and a further 5 bags good were disposed of at 2¼d. subject. Eight bags of fair Ceylon also sold at from 1½d. to 1¾d. for sea-damaged.

LIME-JUICE.—Four puncheons and six hogsheads West Indian sold at from 1s. to 1s. 2d. per gal.

MASTICH.—Small private sales have been made; in auction 2s. 3d. was wanted for yellowish.

MILK-SUGAR.—Ten cases of Dutch were held at 40s., and 16 cases Italian at 42s.

MYRRH.—The only sale made referred to 3 bales of common chips, without reserve at 28s.

NUX VOMICA.—Bold bright Ceylon were held at 12s. per cwt., and 20 bags of bold darker sold at 11s.

OIL, CAMPHOR.—Sixteen cases dark brown (sp. gr. 0.9821) sold without reserve at 11s. per cwt.

OIL, LEMONGRASS.—Nine cases of Cochin, analysing 86 per cent. of citral, sold at 2½d. per oz.

OIL, LIME.—Four cases of fair distilled West Indian sold at 2s. 9d. per lb., and for three cases slightly rusty tins 2s. 1d. was paid; 37 packages have arrived from Dominica.

OIL, ORANGE.—Six barrels of sweet West Indian orange oil were offered, but no response was made to 13s., the lot being bought in at 15s. per lb.

OIL, PATCHOULI.—Six cases of Fisher's brand oil were held at 7½d. per oz.

OIL, PEPPERMINT.—Five cases "D & O" brand Wayne County oil sold without reserve at 6s.

ORANGE-PEEL.—Twelve cases of fair Tripoli strip sold without reserve at from 5d. to 5½d., and a further 10 cases of similar quality were taken at 4¾d.

RHUBARB.—Quiet. Two cases of medium round Canton, with three-quarters fair pinky fracture, sold at 1s. 3d., and a case of medium flat rough realised 1s. Three cases medium and bold flat Shensi, with three-quarters fair pinky fracture, realised 1s. 10d. to 1s. 11d.; for medium round horny High-dried (2 cases) 5½d. was paid, and the limit for medium flat High-dried was 1s. 4d.

SARSAPARILLA.—The offerings of genuine grey Jamaica were curtailed somewhat owing to the fact that 19 bales were not landed in time; 16 bales, all that offered, brought fully previous auction prices of from 1s. 4d. to 1s. 6d. for ordinary to good grey. Twelve bales of Native red sold at about steady prices, from 10d. to 1s. being paid for dull to fair red, and 9d. for sea and water damaged. Eleven bales Lima-Jamaica offered and sold at from 1s. 2d. to 1s. 3d. per lb., being fully steady compared with the last prices paid publicly. The arrivals include 14 packages from Panama and 8 from Jamaica.

SENA.—About three hundred bales Tinnevely were offered, and all sold with competition at steady prices. The quality showed a falling-off, as is usual with the later arrivals of the crop. Bold yellowish sold at 3d., small medium greenish realised 2½d. to 2½d., and common dark 1½d. per lb. The 8 bales of *pods* offered met with a good demand, and sold at 3d. for dark to good pale. Three hundred and eleven bales Alexandrian offered, chiefly half-leaf, the bulk of which sold at 2½d. per lb.; 3 bales fair whole leaf held for 8½d., 2 bales siftings sold at 2d., and pods held for from 6½d. to 8½d. for medium to good pale. Towards the close 13 bales pods sold at from 4d. to 4½d. subject, and 22 bales broken leaf at 2½d. subject.

SQUILL.—Five bags of fair pale sold without reserve at 7½d. per lb., and a further 4 bags were taken at 1d., also without reserve.

TONKA-BEANS.—Four casks of good frosted Angostura were held at 5s. 6d. per lb., and for 1 bag of rather foxy Para 9½d. was paid.

WAX, BEES', met with a good inquiry at an advance of 5s. per cwt. on Mombasa descriptions. Eighteen packages Egyptian realised 6l. 7s. 6d. to 6l. 10s. for ordinary block, and for 23 cases Zanzibar from 6l. 10s. to 6l. 12s. 6d. was paid for fair, part slightly wormy. Four bags of grey Australian brought 7l. 12s. 6d., and 5 cases good realised from 7l. 15s. to 8l., being dearer. A parcel of 30 packages East African sold at 5l. 10s. for broken and drossy balls, and chips at 5l. 7s. 6d. For 50 mats of fair brown Madagascar block a bid of 6l. 10s. is to be made, and an odd lot of 4 bags was parted with at this price. Jamaica sold steadily, 8 packages realising from 7l. 10s. to 7l. 12s. 6d., and for brown 7l. 10s. was paid.

WAX, JAPAN.—Twenty cases offered, of which ten had been sold privately; 55s. was wanted for the remainder.

Japanese Camphor.

In its December issue the "Toyo Yakuho" of Yokohama refers to the Japanese camphor-agency recently acquired by the Mitsui Company. Owing to the fact that Japanese camphor had to face the powerful competition of the cheaper Chinese and synthetic camphor, the company, it states, resolved to obtain absolute control of the business, and to place the staple on the foreign market in the same way as ordinary merchandise, without being subject to Government control. Last August the European market heavily declined, and the Formosan monopoly authorities were filled with dismay. The Mitsui Company, quick to seize the opportunity, lost no time in persuading the authorities that the present system of working the monopoly was very inconvenient, as it impeded the taking of prompt action to meet circumstances. By the present arrangement the Minister of Finance agrees to relegate to the Formosan Government the right to dictate the price of camphor abroad, the Formosan Government in turn being authorised to place the matter in the hands of the London and New York agents of the monopoly. These officials are thus enabled to lower or raise the price according to their own judgment, and they are now transacting business on these lines in London and New York.

PROFESSOR N. NAGAI, doctor of pharmacy and President of the German Association School in Tokyo, has been presented with the First Order of the Red Eagle by the German Emperor on the occasion of the twenty-fifth anniversary of the school.



TO CORRESPONDENTS.—Please write clearly and concisely on one side of the paper only. All communications should be accompanied by the names and addresses of the writers. Publication of letters does not imply our agreement with the arguments or approval of the statements therein. If queries are submitted, each should be written on a separate piece of paper. We do not reply to queries by post, and can only answer on subjects presumably of interest to our readers generally. Letters received after the early posts on Wednesday cannot as a rule be dealt with in the current week's issue.

BUSINESS INFORMATION.—We have very full records of the makers or agents for articles and products connected with the chemical and drug trades, and supply information respecting them by post to inquirers. Inquiries regarding any articles which cannot be traced in this manner are inserted under "Information Wanted."

The Pharmaceutical Preliminary Examination.

SIR,—“Junior's” letter in your current issue touches a point of vital interest to many apprentices of to-day. As he states, the educational standard has advanced, and there appears to be little to be gained by enforcing so stringently the letter of the present Preliminary. In many establishments to-day the apprentice is considered a convenient source of cheap labour, and no opportunity is given him for study. This condition is far more threatening for the pharmaceutical future than the danger of lowering the standard of the profession by admitting those into it who can be certified to have attained proficiency in the manner proposed by Jay Mack. The danger is from within, not from without, the profession. My experiences of the Preliminary are akin to “Junior's.” When my indentures were signed, my employer informed me that the Preliminary “did not matter.” After a while I found it was a necessity, and set to work, and, as the result of the work done after twelve and a-half hours’ business daily, I submitted a third-class Honours certificate of the Junior Cambridge Locals, which, however, was returned to me (as it did not include algebra) ineligible. Surely that might indicate that a high standard had been reached, even if it did not include that one subject. A reform in these regulations might be made which would greatly help the struggling apprentice, and, at the same time, deplete the ranks of the great unqualified. Yours respectfully,

LOHOSH. (172/28.)

[*Bismuth* (174/52) and *No. 2* (174/55) also write on the subject endorsing “Junior's” remarks, but we have no room for their letters this week.—EDITOR C. & D.]

The Future and “Pharmacy.”

SIR,—I am amazed to find that, after all, the use of the word “pharmacy” is not to be confined to registered persons. My authority for the words I mentioned was a journal contemporary with yours, but I have no doubt your own report is the correct one. It certainly comes to one as a knockdown blow to read that, in spite of the mutual-admiration meetings held in one of the London squares, the persons responsible for the safeguarding of the rights of registered persons have been so blind, and one is tempted to ask if these people can really be sane. Unqualified individuals and companies will continue to paint over their premises “Brown, Ltd., Cash Pharmacy,” in opposition to their registered opponent over the way, “Brown, Cash Pharmacist.” Similarly, a registered person who owns two shops, one of which he manages himself, will paint over one shop “White, Pharmacist,” but over the other shop, which is managed by an unqualified person, and in which no medical prescriptions are dispensed or poisons sold, he will paint over his door “White, Pharmacy.” A pretty compromise in all truth, and the genius who engineered it should have a monument erected to his memory. Your announcement that private persons cannot make it their business to see that certificates are exhibited in shops will interest those chemists in business on their own account who, rightly object to exhibit their badges like the conductors on a

tramway car. "Xrayser" hits the mark very accurately in this week's issue. As only the Society can prosecute the question of certificates need not worry any of us very much, for the Society has not been conspicuous hitherto by its knowledge of what goes on in chemists' shops. Meanwhile, hearty congratulations to Major men and women, who have come out with flying colours, successful in their laudable endeavours to preserve for their own personal use the titles granted to them by the Act of 1852. Why have not the Minors as much commonsense as the Majors?

Yours faithfully,

197 Whitechapel Road, E., January 8. G. E. OLIVER.

What about Drug-stores?

SIR.—"East Anglian's" plan is excellent: the Durham M.D. for doctors over forty is a very sensible plan. If we follow that plan many drug-store men will become chemists. "East Anglian" points out that the new Act compels [No; "authorises."—EDITOR.] the Society to accept Colonials, Army and Apothecary men without examination; but what about those rejected as being not up to the standard? Colonials will get registered all right: their examinations are better than ours; Army and Apothecary examinations, I have always understood, were more use than ornament, while our examination is (and doubtless will continue to be) more ornamental than useful; therefore some of them will be rejected and will become drug-store owners. You cannot expect men of thirty or forty to do much studying. The old average of 50 per cent. failures will continue. My plan does not need fresh legislation: Section 4 (c) says:

Providing for periods of time and courses of study in connection with the qualifying examination and dividing examination into two parts.

And the Society has to evolve by-laws to meet that part of the new Act. When a young man of the age of eighteen or nineteen passes the first part of the new Minor, he will be given a paper to say so. What will that paper be worth? If not worth anything, then it reminds me of the native of India who in applying for a job in 1907 described himself as

Ram Chunder Das (failed) B.A. Allahabad University. 1897.

"Luke Sharp" would call it "the somethingness of nothing" or "the nothingness of something."

JAY MACK.

A Country View of the New Act.

SIR.—I am not one of those who rush into print upon any and every occasion; indeed, during a long connection with the drug-trade—for I was born into it—I have only aired my opinions on pharmaceutical politics on two occasions; but now that the Poisons and Pharmacy Act, 1908, has been placed upon the Statute-book, I should like to state how the position appears to a country chemist and druggist and what probable effect this fateful measure will have upon the fortunes of the craft. Frankly, I believe it is the greatest disaster which has happened to pharmacy since its recognition by the grant of the Charter. It has conferred a prestige upon the unqualified companies which they never had before, as their usurpation of our title has been condoned and confirmed in perpetuity by legislative enactment. They now hold an impregnable position from which it will be impossible ever to dislodge them. We may now expect, as the result, the formation of new drug-companies, and a probable increase in the number of retail shops, by the old ones. If the competition was keen before, we may now expect a fight to the death. So far is the new Act, from which some of my sanguine friends hoped so much, from fulfilling the legitimate desires of chemists and druggists and improving their position either financially or socially, I believe that the exact opposite is the truth. I know there has been much dissatisfaction at the character of the Bill formulated by the Society, and some resentment at its continual whittling down until scarcely anything of value was left. The rank-and-file, or at least many of them, have only acquiesced in the expense, trouble, and loss of time in preparing for the examinations of the Society, and for their continual tightening up, by the consideration that when they had proved their special fitness in this manner Parliament would in some way show its appreciation by granting the sole right to dispense and to the sale of all drugs and chemicals except a few used for various domestic purposes. This they consider they have earned, that it is reasonable and to the public benefit. The ex-

treme gravity of the present position consists in the fact that now all possible hope of its amelioration, except possibly in slight and unimportant particulars, is projected into such a dim and distant future as to be practically non-existent. Up to the passing of this Act chemists and druggists looked upon themselves as being distinguished from all other traders by two well-marked characteristics—their sole right to the title which they had gained by examination, and the sole right to the sale of poisons, which had been conferred upon them by the Legislature by virtue of their special qualifications. This Act practically abrogates those two distinctions, the one a right, the other a privilege.

There are two matters upon which the Council seem rather to plume themselves as having won a great victory—viz., in compelling companies to have at least one qualified assistant in each of their places of business and in bringing them under Sections 1 and 15 of the Pharmacy Act, 1868. Well, as it is understood that the companies' astute representative readily acquiesced in this, we may reasonably doubt whether or not this wonderful concession can be of much benefit to the ordinary chemist and druggist. It, however, furnished the moving spectacle to gods and men of the company lion and the pharmaceutical lamb lying down together, and it will be unnecessary as well as cruel to particularise their respective positions. Before the passing of this Act, when a customer demurred to the charge of 1s. 6d. for the dispensing of some prescription for which she had been charged, say, 10d. at the stores, we have always been able to point out that at the stores she had no guarantee of any qualification whatever, whereas our certificate was proof of special knowledge, which to the invalid was worth much more than the difference in the two charges. This powerful and frequently effective argument the new Act has knocked from under us with, I fear, disastrous results. On the other hand, it is true that from the qualified assistant's standpoint the matter may wear a somewhat rosier hue, as increased competition for his services will have the undoubted tendency to better his position. If he has made up his mind to remain a servant all his active life, then I suppose it will be all right; but if he be ambitious and hopes some time to commence business on his own account, then the keen competition of the stores, accentuated by the advantages this Act gives them, will probably turn his hair prematurely grey.

It had been my intention to go through the Act section by section to show how infinitely little there is in it of any real benefit to the chemist and druggist, but I fear it would take up more space than you, Mr. Editor, would be willing to allow me. After all, I am not sure that this is necessary, as the sections relating to titles and poisons—the first unjust, the second impolitic—really constitute the Act; the other matters included are merely so much leather and prunella. Section 2, taking away our sole right to the sale of poisons, and the section conferring our title upon unqualified and unregistered companies, we are, I fancy, all agreed upon as disastrous. Please note, too, that immediately upon the second reading of this measure the Grocers' Associations at once instructed their Federation to insist upon another clause being added giving grocers the right to sell patents and proprietary medicines containing poisonous drugs! If it be right, and there be no danger to the public in allowing ironmongers and general dealers to sell arsenical and other deadly preparations, and to stock the same in such quantities as would poison the whole population within a radius of five miles, how can grocers logically be refused permission to sell proprietaries containing perhaps one drachm of chlorodyne?

Section 4, instituting a curriculum, most certainly will not be of any advantage to us. As the scope of the examination is known, every pharmaceutical student already works through a practically identical curriculum. If the division of the Minor, though a right and proper thing, should be accompanied by a stiffening of the examination, of which already there have been hints, it may prove anything but a blessing. On this question, too, I am not alone in thinking that the division might have been, and ought to have been, made years ago, without the ponderous machinery of an Act of Parliament. The Council at present divide it into two parts for their own convenience, with an interval of seven or eight days, and

if this can be done without Act of Parliament, why not for eight weeks or eight months? Then I see it is looked upon as a brilliant piece of legislation that the Council of the Society can now by simple resolution—what? not make additions to the Schedule of Poisons—but simply recommend the Privy Council to transfer a poison from one part of the Schedule to another. I feel very much inclined, with Dominie Sampson, to exclaim, "Prodigious!"

What should be done? Well, for my part, as the Society has shot its bolt and missed its mark, I have no further use for the Society; I have resigned my position as Divisional Secretary and my membership. If we still hope for any help in conserving what little is left to us, we shall have to set about it quickly. There have been many ways in which the Society could have very materially assisted us. One of the two objects of its institution was the protection of its members, but it has always been more or less out of touch and out of sympathy with the common or garden chemist. When some desirable reform has been suggested, it has too frequently been tabooed as *infra dig.*; or the Council have been in terrible fear of the objections of the Medical Council, the Privy Council, or some Government Department. The result has been that the poor, harassed chemist, after paying his guinea to be protected, has actually had to originate, and, of course, subscribe to, other societies—the P.A.T.A., the Chemists' Defence Association, etc.—and the cry is "Still they come!" for some enthusiasts have for some time been advocating the formation of another. Why not all amalgamate? Why not form some comprehensive Society that will protect us at all points, and do everything possible not only to assist us to retain and consolidate the few privileges we have, but also to be on the look-out for any change of which advantage may be taken to regain some of those we have lost. I leave this idea to the young and energetic members of our craft, and, in conclusion, I ask them to study the Act for themselves, to think for themselves, and not allow discredited pharmaceutical legislators to persuade them that this Act will be of the least service to them, or is anything more than a delusion and a snare.

Rawtenstall, January 12.

JOHN E. LORD.

Bona Fide Conducting.

SIR,—I have two businesses which are situated about thirty yards apart. I consider I can conduct them both *bona fide* myself, because I go to and fro from one to the other quite a hundred times a day. I can exhibit my Major certificate in one and carry on the business of a pharmaceutical chemist, and my Minor certificate in the other, and carry on the business of a chemist and druggist. Further, I believe I could without any great strain add another very close shop, conduct it "*bona fide*," with the aid of my Major diploma exhibited therein. It all depends on the exact meaning of the words "*bona fide*."

Yours truly,

CYMRO. (170/33.)

[The course which our correspondent proposes to take will, after April 1, when it becomes known to the Pharmaceutical Society, bring him a summons to show cause why he should not pay the penalty of 5*l.* thereby incurred.—EDITOR C. & D.]

Te Diaryum Laudamus.

Business builder, money puller,
Business brighter, coffers fuller—

That's the *Diary* nineteen-nine.

Smart men, slow men, both it grips,
Therein the keenest may glean tips:

The *Diary* scores for nineteen-nine.

Possess it! get it! pay the sub.

If you're too late!—ah! there's the rub—

You've lost a friend for nineteen-nine.

CASQUE O'REILLY.

They Buy Soap.

An *Old Sub.* (172/32) in Walthamstow repeats the warning given in our issue of January 9, p. 66, regarding two foreigners who come in to buy a cake of soap and manage to rob the chemist while in the shop. Our correspondent lost a sovereign in the same manner as last week's correspondent did, and a near neighbour lost 10*s.* It is desirable, says "An *Old Sub.*," that chemists, in any district, who are visited by these undesirable customers, should communicate with the police before they leave the shop.

Dispensing Note.

An Iron-and-Phosphate Mixture.

SIR,—I had the subjoined prescription to make up recently. After standing about twelve hours or so the mixture turned quite thick. On shaking up vigorously, it became pourable, but not a presentable mixture. I made another bottle with inf. calumb. conc., with the same result. Can it be the phosphoric acid acting on the starch in inf. calumbæ?

Yours faithfully,

J. S. STEWART.

Ferri et ammon. citratis ...	...	gr. x.
Tinct. nucis. vom. ...	...	℥x.
Acid. phosph. dil. ...	...	℥x.
Tinct. zingiberis ...	...	℥xv.
Inf. calumb. recentis ad ...	...	5ij.

S. et M. Mitte 3vj.

Sig.: 5ij. ex aq. post cib.

[This is an interesting mixture, and a somewhat puzzling and unusual one. When compounded as written it becomes a jelly after standing a few hours. We prepared it without the tincture of nux vomica, then without the tincture of ginger but with the tincture of nux vomica; in both cases it jellied. Leaving out the tinctures altogether, and using instead alcohol equivalent to that contained in the two tinctures, the result was the same. Omitting the tinctures and using infusion of calumba only along with the iron salt and phosphoric acid, the mixture did not jelly like the others, but after standing for a week there was just a suggestion of increased body in the liquid. When water only was used instead of the infusion there was no thickening. It appeared, therefore, that the alcohol in the tinctures was the main influence in producing the inconvenient thickening of the mixture. The part it plays, however, is a secondary one. The primary cause is the formation of a compound with the phosphoric acid and iron and ammonium citrate, akin to what is called soluble phosphate of iron, usually iron sodium citro-phosphate, in this case iron ammonium citro-phosphate. Such compounds, while pretty soluble in water, are insoluble in alcohol. They, moreover, assume a syrupy condition when in strong solution. The mixture being a strong one, the effect of the alcohol in it is to produce a degree of insolubility which there is not sufficient infusion to overcome. The remedy is to make the mixture half strength, and double the dose.]

Legal Queries.

Before submitting questions for reply in this section please refer to the "C. & D. Diary, 1909" for the following subjects: Income-tax, p. 220; Pharmacy Law and Poisons, p. 216, (abroad) p. 211; Spirit Laws, p. 229; Stamped Medicines, p. 221; Trade-marks, p. 194; Wines, Sale of, p. 231; and Legal matters generally, p. 233.

F. H. R. (170/41).—A chemist or any other person not registered as a dentist can intimate "teeth extracted" and "artificial teeth at moderate prices" without infringing the Dentists Act. There have been no prosecutions for simple intimations like that; and as regards a few in which no direct claim was made in showcards of special qualification to practise dentistry, we observed that the defendants claimed in speech that they were dentists.

Anæsthetic (163/11).—We do not consider that "extractions with anæsthetics" used by an unqualified person is a claim to being specially qualified to practise dentistry. From what one of the High Court judges said, "teeth carefully extracted" may be regarded as such a claim.

A. F. B. (171/51).—A qualified chemist has one shop in which his name and qualification is displayed; however, he is not always there, living elsewhere, and has an unqualified assistant. All scheduled poisons are only sold by proprietor. Can this arrangement be carried on after April 1? [Yes. The owner must, of course, exhibit his certificate in the premises.]

A. F. C. (172/6).—If Beecham's pills are resold in 1*l.* and 2*l.* boxes, each box must bear a 1½*d.* medicine-stamp. They may be resold unstamped in a twist of paper.

Forty-years' Subscriber (172/54) asks if the word "poisonous" should be substituted for "poison" on preparations containing less than 1 per cent. of morphine. [No. The word "poisonous" is only required for the mineral acids and soluble oxalates. Preparations containing 1 per cent. or more of morphine are in Part 1, and those containing less in Part 2. The labelling provisions are the same for both parts, and are not changed by the new Act. It should be observed that preparations containing 1 per cent. of a

morphine salt are in Part 2, since they contain less than 1 per cent. of morphine alkaloid.]

F. J. H. (173/13) puts the following case: A trader (non-qualified) living ten miles from the nearest chemist is licensed in order to continue his trade, which he has illegally carried on, in poisonous dips. He, by himself or by representatives, travels and attends market towns where there are qualified chemists. Can he in those towns obtain orders, and is he able to obtain orders when travelling within a radius of ten miles of the nearest chemist? [This question cannot be fully answered until the regulations made under Section 2 by his Majesty in Council are available; but it may now be said that the principle of limitation is included in Section 2, and the "extent" of the licence (presumably the area in which it will be valid) is one of the matters for regulation. Further, the neighbourhood where the applicant for a licence carries on, or intends to carry on, business comes under the consideration of the local authority, which has no power outside its own locality. The licence will cover sales in that neighbourhood only; but this should not be taken to imply that orders from other neighbourhoods cannot be executed at the premises of the licensee. The regulations may contain something on that point. In any case sales can only be made when the signature of the purchaser is obtained in the poisons-book, according to the Pharmacy Act, 1868, or the Arsenic Act, 1851.]

L. L. (167/68).—It has been decided that "Lung-balsam" is a dutiable title for a medicine (see *C. & D. Diary*, p. 233). "Family Chest and Lung Mixture" and "Family Bronchial Mixture" are not dutiable titles.

Alfreton (167/21) asks: "What is my Major qualification worth now that my title 'pharmacist' is given to persons of lower qualification?" [Just what it was before. The Major man's superiority in trading has always been intrinsic rather than statutory, for the chemist and druggist has all his trading rights except the higher title. Section 1 of the 1868 Act gives chemists and druggists the title "pharmacist," and although Section 15 makes its use penal some authorities were of opinion that they could get over that.]

H. J. S. (166/56).—An unqualified person who buys the business of a chemist company and uses that company's labels bearing the title "chemist," takes, uses, or exhibits the title contrary to Section 15 of the 1868 Act, and is liable to a fine of 5*l.* The use of bottles with the name and title blown upon them may or may not be an offence, according to the conditions of use.

Bumpkin (169/73).—The best course for the protection of the name would be to register it as a trade-mark. As to this see the *C. & D. Diary*. The design would be a separate registration. If you have no experience in registering trade-marks, you should ask one of the agents who advertise in the *C. & D.* for an exclusive charge.

M. M. C. (172/4).—The Apothecaries Act does not extend to Scotland, where the description Apothecaries Hall is in common use by qualified and unqualified persons. It cannot be stopped by the Pharmacy Acts.

No. 4177.—What are your name and address?

Rex (172/22).—"A" is a chemist and druggist with shop, which he leaves for a few hours daily to attend to his duties as dispenser at a local institution. What is now his position? [As before, except that he has to conspicuously exhibit his name and certificate in the shop as the *bona-fide* conductor of the business.]

J. M. (174/18) asks: (1) Reciprocity with Ireland. Has it got lost or is Ireland a colony? [Reciprocity with Ireland was not proposed nor is that country a colony.] (2) Any person who being a chemist keeps a branch open must employ therein a chemist to carry on, etc. But what about any person who is not a chemist, but a drug-store man. Can he keep open a branch and call it a chemist's shop? [He cannot call it a "chemist's shop"; that would be illegal use of the title "chemist." Section 4 of the Act, as we have repeatedly stated, applies to (1) pharmaceutical chemists, (2) chemists and druggists, (3) the executors of these, (4) bodies corporate, and (5) firms in Scotland. It is the businesses of these that are regulated. Nothing is said about the businesses of unqualified persons.]

Miscellaneous Inquiries.

We endeavour to reply promptly and practically to trade questions of general interest, but cannot guarantee insertion of replies on a particular date, nor can we repeat information given during the past twelve months. A preliminary condition for reporting on samples submitted is that all particulars as to source and uses are given to us.

W. R. (162/5).—ELECTRICAL AMALGAM.—This is used for rubbing on the zinc plates of batteries or the rubbers of plate

machines. It is made by melting together 1 part of zinc and 1 part of tin, and then adding 3 parts of mercury. The mass is transferred to a wooden box containing some chalk, and then well shaken. It is also known as Kienmayer's amalgam.

Teeth (Amsterdam) (159/15).—TOOTH-PASTE.—The following is a good formula, but for your purpose you should mix the glycerin and syrup and endeavour to use as little as possible. The quantities given make a stiff mass, but for filling into tins the paste should be as dry as it can be made:

Prepared chalk	...	...	12 oz.
Powdered pumice	...	...	14 oz.
Powdered orris	...	...	3 oz.
Dried sodium carbonate	...	...	½ oz.
Powdered sugar	...	...	2 oz.
Powdered quillaia extract	...	...	2 dr.
Carmine	...	...	45 grains
Glycerin	...	...	2 oz.
Syrup	...	...	3 oz.
Oil of rose geranium	...	...	45 minims
Oil of cloves	...	...	45 minims
Oil of cassia	...	...	15 minims

Rub the carmine with the quillaia extract, soda, and pumice. Separately mix the perfume with a part of the chalk and mix with the carmine-powder. Now add the sugar and orris, and when well mixed the remainder of the chalk. Sift the powders, and finally mass in an iron mortar with the glycerin and syrup, using as little excipient as possible.

H. E. N. (157/6).—(1) Your inquiry is curiously enough the antithesis of the above. You can employ the same formula, but without the carmine, and to make the paste liquid add sufficient water. (2) FEMALE CORRECTIVE MIXTURE (1-7).—This is generally made with dec. aloes co. conc. and mist. ferri co. conc. It keeps well when diluted.

Medical Gleanings.

Coryza.

DR. W. H. SPURGIN, Newcastle-on-Tyne, gives, in the "British Medical Journal," the following hints on the prevention and treatment of coryza: Wear light all-wool underwear, avoid close, heated, and fetid rooms as much as possible, never wear makintoshes unless a light one over an overcoat for driving or motoring. No muffler. Take a cold bath daily (summer temperature), hot one when necessary, but sponge all over with cold water while standing in the hot water. Diet according to common-sense, little alcohol, tobacco accordingly. My colds are invariably got by either getting really chilled or sweating (unless I take a hot bath and change of clothing). As to treatment, take aspirin gr. v. with tab. quiniæ gr. j. ad gr. ij. 4 tis. horis. Of course, attack the fiend vigorously at onset. Follow on after breaking up the cold with ammonia and quinine. Snuffing menthol boric salicylic snuff is very useful.

Lactic Ferments.

THE "British Medical Journal" of January 9 gives results of tests carried out on samples of lactic ferments for the production of sour milk. A number of inoculations were made upon milk derived from the ordinary supply of one of the large dairy companies in London. In one series the milk (Set I.) was brought to boil only, and a second lot (Set II.) inoculated into milk kept at boiling temperature for an hour. In both sets of tests the inoculated milk was incubated at 40° C. for ten hours and afterwards set aside for twelve hours (not in an incubator, but at laboratory temperature). The uninoculated milk brought to boil only showed, after ten hours' incubation, merely the trace of lactic acid originally present, and in twenty-two hours 0.03 per cent. The results in Set I. for Fermentlactyl tablets were 0.00 and 0.10 per cent. of lactic acid, in ten hours and twenty-two hours respectively, under the same conditions as above. The corresponding percentages of the acid in other products were: Lactobacilline tablets, 0.00 and 0.05; Oppenheimer's cultures, 1.02 and 1.10; Sauerin tablets, 0.04 and 0.23; Trilactine tablets, 0.00 and 0.09. In Set II. the corresponding results were: Fermentlactyl, 0.00 and 0.13; Lactobacilline, 0.00 and 0.10; Oppenheimer's, 0.75 and 0.98; Sauerin, 0.03 and 0.21; Trilactine, 0.03 and 0.26. Another series of tests gives somewhat different results, and irregularities are ascribed to variations in the tablets and cultures.

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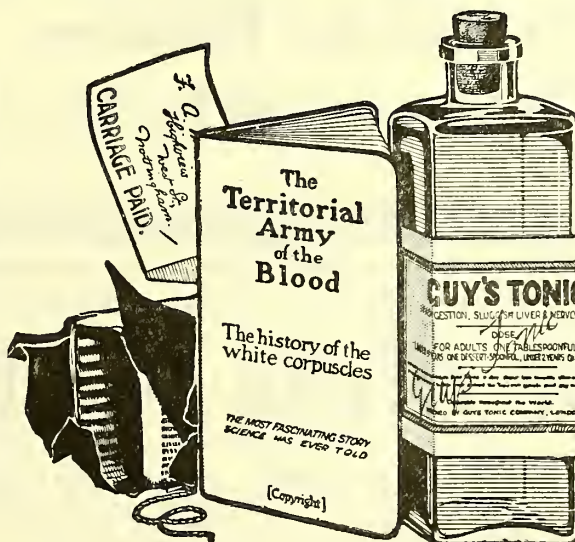
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 Ammon. Carb. lump, 3 cwt. @ 3½d. lb.; 28 lbs. @ 4½d. lb.; 7 lbs. @ 6d. lb.; powder, ¼d. lb. extra.
 Ammon. Chlor., 99% pulv., 1 cwt. @ 33/- cwt.; 7 lbs. @ 4d. lb.; Batteries, 4/- cwt. extra.
 Aniseed, English ground, 1 cwt. @ 35/- cwt.; 7 lbs. @ 5d. lb.
 Antim. Crocus Pulv., 1 cwt. @ 38/- cwt.; 14 lbs. @ 6d. lb.
 Antim. Nig. pulv., 1 cwt. @ 25/6 cwt.; 14 lbs. @ 1/10 oz.
 Argent. Nit., 8's to oz., 25 oz. @ 1/8½ oz.; 1 oz. @ 1/10 oz.
 " Cryst., 25 oz. @ 1/6 oz.; 8 oz. @ 1/7 oz.
 Bals. Copaiba pure, 44 lbs. @ 2/3 lb.; 9 lbs. @ 2/6 lb.; 1 lb. @ 2/9 lb.
 Bismuth. P.B. Carb., 28 lbs. @ 7/7 lb.; 7 lbs. @ 7/10 lb.; 3 lbs. @ 8/1 lb.; subnit., 1/- lb. less.
 Benzo-naphthol, 7 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
 Caffeine, P.B., 1 lb. @ 14/- lb.

*Liq. Ammonii Acetatis Conc. 1-7, 6 lbs. @ 10½d lb.; 1 lb. @ 1/0½ lb.
 " Ammon. Aromat., 6 lbs. @ 8d. lb.
 " Bismuth. P.B., 6 lbs. @ 10½d. lb.
 *Liq. Opil Sed., 6 lbs. @ 3/- lb.
 Manna, fine flake, 14 lbs. @ 3/3 lb.
 Metbyl Salicyl. 56 lbs. @ 1/4 lb.; 5 lbs. @ 1/8 lb. 1 lb. @ 1/10 lb.
 Morphia Diacety. Hydrochlor., 1 oz. @ 10/6 oz.
 Morphia Acet. Hydrochlor. or Sulph. Pulv., B.P. 16 oz. @ 7/1 oz.; 8 oz. @ 7/4 oz.; 1 oz. @ 7/8 oz.; Tart., 1 oz. @ 9/7 oz.
 Oil of Bays, Genuine V.I., 9 lbs. @ 9/6 lb.
 Ol. Eucalypt., B.P., 1 cwt. @ 1/2 lb.; 28 lbs. @ 1/2½ lb.; 9 lbs. @ 1/3½ lb.
 Ol. Gerani Gall. Opt., 1 lb. @ 18/6 lb.; 8 1-oz. bots. @ 1/11 oz.; 1 oz. @ 2/1 oz.; Turc., 1 lb. @ 10/- lb.; 4 oz. @ 12/6 lb.; 3/3 lb.
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 Ol. Morrhuæ Nov. 1908, finest non-freezing Norwegian 25 gall. tin lined barrels; 1 barrel @ 64/- barrel; 2 gal. tins @ 3/6 per gal.
 Ol. Olive, P.B., good yellow, 46 galls. @ 4/10½ galls. 2 galls. @ 5/6 galls.
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 Ol. Peach Kernel (so-called) 1 cwt. @ 10d. lb.; 56 lbs. @ 10½d. lb.; 9 lb. @ 1/- lb.
 Ol. Ricini Alb. Opt. Medicinal, 176 lb. @ 33/6 cwt.; 88 lb. @ 36/6 cwt.; 44 lb. @ 38/- cwt.; 9 lbs. @ 5½d. lb.
 Ol. Santali Flav. Ang. B.P., 5 lbs. @ 10/9 lb.; 1 lb. @ 11/3 lb.
 " Sinapis Express., 1 gall. tins @ 4/6 each.
 Opium Turc. B.P., 3 lbs. @ 14/6 lb.; 1 lb. @ 15/- lb.; powder, 6d. lb. extra.

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 *Tinct. Benzoin Comp. P.B., 5 lbs. @ 2/8 lb.; bond, 8½d. lb.
 *Tinct. Camph. Comp. P.B., 5 lbs. @ 1/10 lb.; bond, 6½d. lb.
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 *Tinct. Cinchon. Comp. B.P., 5 lbs. @ 2/9 lb. bond, 10½d. lb.
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 *Tinct. Gentiana Comp. P.B., 5 lbs. @ 1/7 lb.; bond, 6d. lb.
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 *Tinct. Iodi B.P., 5 lbs. @ 3/2 lb.; bond, 1/1½ lb.; decolor, 5 lbs. @ 3/6 lb.
 *Tinct. Lavandula Comp. B.P., 5 lbs. @ 3/- lb.; bond, 6½d. lb.
 *Tinct. Myrrha B.P., 5 lbs. @ 3/- lb.; bond, 9d. lb.
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 Phenolphtalein, 1 lbs. @ 9/3; 1 lb. @ 10/- lb.
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 Quinine Sulph., P.B., 1,200 oz. @ 6½d. oz.; 100 oz. @ 7d. oz.; 26 oz. @ 7½d. oz.; 10 oz. @ 8d. oz.
 Rad. Jalap., English ground, 28 lbs. @ 1/7 lb.; Rad. Rhei, E. I., English ground, 1 cwt. @ 1/2½ lb.; 28 lbs. @ 1/3½ lb.; 7 lbs. @ 1/5 lb.
 Sang. Draconis pulv., English Ground, 1 cwt. @ 1/10½ lb.; 7 lbs. @ 2/- lb.
 Santonine, P.B., 1 lb. @ 14/-
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 " Sulphocarbolas B.P., 7 lbs. @ 10½d. lb.; *Spt. Ammon. Aromat. P.B., 5 lbs. @ 2/1½ lb.
 *Spt. Ether Nit. P.B., 4½ lbs. @ 2/9 lb.; 1 lb. @ 2/11½ lb.
 Sugar of Milk, B.P., 1 cwt. @ 48/- cwt.; 7 lbs. @ 7d. lb.

*Tinct. Opil B.P., 5 lbs. @ 2/7 lb.; bond, 1/11 lb.
 " Opil Amon. B.P., 5 lbs. @ 3/8 lb.
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 *Tinct. Scillae B.P., 5 lbs. @ 2/1 lb.
 " Senegae P.B., 5 lbs. @ 2/8 lb.; bond, 1/3½ lb.
 *Tinct. Strophanth. P.B., 5 lbs. @ 2/10 bond, 8d. lb.
 *Tinct. Valeriana, 5 lbs. @ 2/3 lb.; bond, 6d. lb.
 *Tinct. Valeriana Ammon. P.B., 5 lbs. @ 2/6 lb.; bond, 8½d. lb.
 *Tinct. Zingib. P.B., 5 lbs. @ 3/1 lb.; bond, 6½d. lb.
 *Tinct. Zingib. Fortior, 5 lbs. @ 3/5 lb.; bond, 10½d. lb.
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 " Acid Carb. B.P., 28 lbs. @ 8d. lb.; 7 lbs. @ 9d. lb.; 1 lb. @ 11d. lb.
 " Gallic P.B., 7 lbs. @ 10d. lb.; 1 lb. @ 11d. lb.
 " opio, 7 lbs. @ 2/2 lb.
 " Hydrargyri B.P., 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/9½ lb.
 " Hydrarg. Ammon. B.P., 28 lbs. @ 11d. lb.; 7 lbs. @ 1/2 lb.
 " Hyd. Nit. Dil., 7 lbs. @ 10d. lb.
 " Paraff. Alb., P.B., 28 lbs. @ 7d. lb.; 7 lbs. @ 8d. lb.; 1 lb. @ 10d. lb.; Flav. 28 lbs. @ 5d. lb.; 7 lbs. @ 6½d. lb.
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Pil. Castor Oil (Ol. Ricini, gr. ½; Pot. Sulph., gr. 1½; Pulv. Rhei, gr. ij; Sapo Hyspan., gr. ½; Ol. Crotonis, gr. i-16) 2d. per gross.
Pil. Calcii Sulphid., gr. ½, ¾, 1, or 1 2½d. per gross.
Pil. Coloc. Co., B.P. 5½d. per gross.
Pil. Coloc. et Hyoscy., B.P. 5½d. per gross.
Pil. Dandelion and Camomile (Ext. Taraxaci, Ext. Anthem., Pulv. Rhei, aa. gr. j.; Pulv. Zingib., Pulv. Aloes Barb., aa. gr. ½; Ol. Carui, gr. ½) 6 .. 2½d. per gross.
Pil. Ferri Co., B.P. 9/6 per 100 gross.
Pil. Gout and Rheumatic (Ext. Colchici Acet., gr. ss.; Pil. Hydragr., Pil. Rhei Co., Ext. Hyoscy., aa. gr. j.) 7d. per gross.
Pil. Ipecac. et Scilla, B.P. 3d. per gross.
Pil. Neuralgic (Quineti, Ferri Sulph., aa. gr. ½; Ext. Bellad., gr. ½; Ext. Colchici Acet., gr. ½; Hyoscy., Camphore, aa. gr. j.) 8d. per gross.
Pil. Podophyllin (Podophyllin gr. ½; Ext. Coloc. Co., gr. ½; Pulv. Aloes Socot., gr. ½; Pulv. Scammon., gr. ½; Sapo Hyspan., Ext. Hyoscy., Gingerin, aa. gr. ½) 5d. per gross.
Pil. Quinine, gr. j. 5½d. per gross.
Pil. Quinine, gr. ij 9d. per gross.
Pil. Rhei Co., B.P. 2d. per gross.
Stomach and Liver Beans (Oval) Gelatine-coated, same Formula as Pil. Aper., but with 1 gr. Calomel in each Bean 5d. per gross.

Minimum quantity, 5x10 gross tins (which may be assorted, with the exception of Pil. Ferri, B.P. All Pills Pearl-coated unless otherwise indicated. No extra for coloured coatings.

Only Terms: CASH WITH ORDER. All packages free. Quality guaranteed. Finish unsurpassed. Carriage paid.

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Laboratory and Works,
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Founded A.D. 1786.
 Incorporated 1887.

Stockport, Dec. 1st, 1908.

In response to the general complaint that profits have by competition been cut down and lost, it has been decided that "Linseed Compound" (Kay's Compound Essence of Linseed) and all the Proprietary Medicaments of Kay Brothers Limited, shall be placed on the list of the P.A.T.A.

	Adver- tised Price.	Minimum Retail Price.	Minimum Whole- sale Price to Retailers.	Minimum Price to Wholesale Dealers.
"Linseed Compound"	9½d.	9½d.	8/1	8/6
	13½d.	1/-	10/-	10/6
	2/9	2/6	25/8	27/-
	4/6	4/-	40/-	42/-
Kay's Tic Pills	11/-	10/-	104/6	110/-
	9½d.	9½d.	8/1	8/6
	13½d.	1/-	10/-	10/6
Mountain Flax ("Linum Catharticum") Pills	2/9	2/6	25/8	27/-
	9½d.	9½d.	8/1	8/6
	13½d.	1/-	10/-	10/6
Kay's Throat Lozenges	2/9	2/6	25/8	27/-
	9½d.	9½d.	8/1	8/6
	13½d.	1/-	10/-	10/6

For £5 as-
 sorted orders
 5 per cent.
 discount, and
 an additional
 5 per cent. for
 prompt cash.

For £50 as-
 sorted orders
 5 per cent.
 discount, and
 an additional
 10 per cent.
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THE Chemist's Co-operative Wholesale.

Acetanilide, B.P. 1 cwt. @ 1/0½ lb.; 7 lbs. @ 1/2 lb.; 1 lb. @ 1/3 lb.
Acetum Ipecac. B.P. 6 lbs. @ 1/- lb.
Acid. Scillae B.P. 7 lbs. @ 3d. lb. [7½d. lb.]
Acid. Acetic. Glacial, B.P. 12 6-lb. bots. @ 6½d. lb.; 6 lbs. @
Acetyl-salicylic. 7 lbs. @ 2/2 lb.; 1 lb. @ 2/4 lb. [1/10 lb.]
Benzoin. B.P. 28 lbs. @ 1/6 lb.; 7 lbs. @ 1/8 lb.; 1 lb. @
Carbolic. Cryst. B.P. 1 cwt. @ 5½d. lb.; 10 lbs. @
7d.; 112 1-lb. bots. @ 8½d.; 6 1-lb. bots. @ 9d. lb.
Hydrobrom. Dil. B.P. 6 lbs. @ 7d. lb.
Oxalic. Cryst. 5 cwt. @ 3½d. lb.; 1 cwt. @ 3½d. lb.;
 14 lbs. @ 4½d. lb.
Adeps Benz. B.P. 28 lbs. @ 7d. lb.
Aloes Barb. Pulv. 1 cwt. @ 60/- cwt.; 7 lbs. @ 9d. lb.
Aloin B.P. 1 lb. @ 3/9 lb.
Ammon. Bromid. B.P. 7 lbs. @ 1/1 lb.
Amyli Pulv. 2½ cwt. @ 12/9 cwt.; 1 cwt. @ 14/-; 28 lbs. @ 16/- cwt.
Aniseed, English Ground. 1 cwt. @ 33/- cwt.; 28 lbs. @ 35/- cwt.
Antim. Nig. Pulv. 1 cwt. @ 27/- cwt.; 28 lbs. @ 29/- cwt.
Aqua Anethi Conc., 1 to 40. 5 lbs. @ 1/10 lb.; Bond 1/- lb.
Carui Conc., 1 to 40. 5 lbs. @ 1/9 lb.; Bond 11d. lb.
Menth. Pip. Conc., 1 to 40. 5 lbs. @ 1/10 lb.; Bond 11d. lb.
Balsam Copaib. Pure, B.P. 44 lbs. @ 2/2 lb.; 9 lbs. @
 2/4 lb.; 1 lb. @ 2/7 lb.
Tolu. B.P. 40 lbs. @ 1/- lb.; 1 lb. @ 1/4 lb.
Bandages, W.O.W. 1 in. 6s. 0d.; 1½ in. 8s. 3d.; 2 in. 10/6;
 2½ in. 13/-; 3 in. 16/- per gross.
Bismuth Carb. B.P. 3 lbs. @ 7/6 lb.; 1 lb. @ 7/8 lb.
Subnit. B.P. 3 lbs. @ 6/6 lb.; 1 lb. @ 6/8.
Bottles, Dispensing. 2 oz. 5s. 9d.; 3 and 4 oz. 6s. 3d.; 6 and
 8 oz. 7s. 3d.; 10 oz. 9/6; 12 oz. 10/6; 16 oz. 14/- per gross.
 Carriage paid terms on application.
Calcii Carb. Precip. No. 1. Lightest, 5 cwt. @ 13/- cwt.;
 56 lbs. @ 16/-

Lin. Aconit. Meth. 5 lbs. @ 10d. lb.
Belladon. Meth. 5 lbs. @ 1/2 lb.
Camp. B.P. 40 lbs. @ 11d. lb.; 9 lbs. @ 1/- lb.
Saponis Meth. 5 lbs. @ 6½d. lb.
Linseed c. Oil, Crushed. 1 cwt. @ 15/6 cwt.
Lint. 7 lbs. @ 1/2 lb.
Liq. Bismuth. et Ammon. Cit. B.P. 6 lbs. @ 10½d. lb.
Copaib. Buchu et Cubeb. 5 lbs. @ 2/- lb.
Ferri Iodid. p.s., 1 to 7. 1 lb. @ 5/6 lb.
Ferri Perchlor. Fort. B.P. 9 lbs. @ 4d. lb.
Morph. Hydrochlor. B.P. 6 lbs. @ 2/3 lb.; Bond 1/9 lb.
Rhei, p.s., 1 to 7. 6 lbs. @ 1/10 lb.; Bond 1/- lb.
Santal. Co. 6 lbs. @ 2/3 lb.; Bond 1/9 lb.
Sennae, p.s., 1 to 7. 6 lbs. @ 1/6 lb.; Bond 1/3 lb.
Liquorice Juice, Pure. 2 and 3½ oz. sticks, 5 cwt. @ 153/- cwt.;
 1 cwt. @ 54/6; 28 lbs. @ 6½d. lb.; 7 lbs. @ 7d. lb.
Lithia Carbonate B.P. 28 lbs. @ 2/3 lb.
Magnes. Sulph. B.P. 1 cwt. @ 5/9 cwt.
Mist. Sennae Co. B.P. 20 lbs. @ 5d. lb.; 6 lbs. @ 6d. lb.
Morphine Acet. Hydrochlor. or Sulph. Pulv. B.P.
 16 oz. @ 7/1 oz.; 8 oz. @ 7/3 oz.; 1 oz. @ 7/6 oz.
Naphthalin, Candle, Marble, or Flake. 1 cwt. @ 11/-
 cwt.; 28 lbs. @ 13/- cwt.
Oleum Amygd. Dulc. Ang. B.P. 9 lbs. @ 1/9 lb.
Amygd. Persic. 9 lbs. @ 1/- lb.
Caryoph. B.P. Ang. 5 lbs. @ 3/4 lb.; 2 lbs. @ 3/5 lb.
Eucalypti B.P. 28 lbs. @ 1/2 lb.; 9 lbs. @ 1/3½ lb.;
 4½ lbs. @ 1/4 lb.
Morrhuae Nov. Opt. 1 barrel @ 60/-; 2 galls. @ 3/4 gall.
Ricini Alb. Opt. 160 lbs. @ 30/6 cwt.; 80 lbs. @ 31/6;
 40 lbs. @ 32/6; 9 lbs. @ 5d. lb. [7 lbs. @ 4½d.]
Oxymel Scillae. B.P. 1 cwt. @ 30/- cwt.; 28 lbs. @ 4d. lb.;
Phenacetin. B.P. Pulv. 7 lbs. @ 2/8 lb.; 1 lb. @ 2/10,

NEXT WEEK! IMPORTANT!!

Dec. Cinchon. Conc., 1 to 7. 6 lbs. @ 1/2 lb.; Bond 11d. lb.
Sarsae Jam. Co. Conc., 1 to 7. 6 lbs. @ 2/- lb.
 Bond 1/4 lb.
Senegae Conc., 1 to 7. 6 lbs. @ 1/8 lb.; Bond 1/3 lb.
Douches. Boxed complete, with 6 ft. L.R. Tubing. 2 Pt. 16/9;
 3 Pt. 18/-; 4 Pt. 19/6 doz.
Enemas, Black I.R., Guaranteed. 3 doz. @ 13/- doz.; 1 doz. @ 13/6.
Ext. Belladon. Liq. B.P. 5 lbs. @ 3/3 lb.; Bond 1/9 lb.
Cascar. Sagrad. Liq. B.P. 6 lbs. @ 1/1 lb.; Bond 10d. lb.
Ergotae Liq. B.P. 5 lbs. @ 2/- lb.; Bond 1/6 lb.
Glycyrrh. Liq. B.P. 6 lbs. @ 1/- lb.; Bond 8d. lb.
Hamamelidis Liq. Dest., B.P. 5 lbs. @ 9d. lb.
Ipecac. Liq. B.P. 5 lbs. @ 8/9 lb.; Bond 6/9 lb.
Nucis Vom. Liq. B.P. 5 lbs. @ 2/6 lb.; Bond 1/5 lb.
Sarsae Liq. B.P. 5 lbs. @ 2/- lb.; Bond 1/6 lb.
Fennel, English Ground. 1 cwt. @ 37/- cwt.; 28 lbs. @ 39/- cwt.
Ferri et Ammon. Cit. B.P. 28 lbs. @ 1/5½; 7 lbs. @ 1/6½ lb.
et Quinin. Cit. B.P. 100 oz. @ 15d. oz.; 25 oz. @ 3½d.;
 1,000 × 1-oz. bots. @ 4d.; 100 × 1-oz. bots. @ 4½d.
Flor. Anthem., Good Medium. 7 lbs. @ 6d. lb. [3½d. lb.]
Fol. Sennae, Good Clean Leaf, 1 cwt. @ 3½d. lb.; 28 lbs. @
 Gelatine, Sheet. 7 lbs. @ 10½d.
Glycerine, B.P., 1,260. 1 cwt. @ 68/-; 56 lbs. @ 69/- cwt.
Glycerin. Acid. Carbolic. B.P. 6 lbs. @ 1/- lb.; 3 lbs. @ 1/1 lb.
" Tannic. B.P. 6 lbs. @ 1/1 lb.; 3 lbs. @ 1/2 lb.
" Belladon. B.P.C. 6 lbs. @ 1/11 lb.; 3 lbs. @ 2/- lb.
" Boracis B.P. 6 lbs. @ 11d. lb.; 3 lbs. @ 1/- lb.
" Pepsini B.P. 6 lbs. @ 1/10 lb.; 1 lb. @ 2/- lb.
Honey, Pale Set. 14 lbs. @ 4½d. lb.
Hydrogen Peroxide, B.P. 1 gln. @ 2/6 gln. |
Hydroquinone, 1 lb. @ 4/- lb.
Infus. Aurant. Co. Conc., 1 to 7. 6 lbs. @ 1/- lb.; Bond 8d. lb.
" Buchu Conc., 1 to 7. 6 lbs. @ 1/- lb.; Bond 8d. lb.
" Calumbae Conc., 1 to 7. 6 lbs. @ 10d.; Bond 5½d. lb.
" Cinchon. Acid. Conc., 1 to 7. 6 lbs. @ 1/4 lb.;
 Bond 10d. lb.
Infus. Gent. Co. Conc., 1 to 7. 6 lbs. @ 10d. lb.; Bond 5½d. lb.
" Rosae Acid. Conc., 1 to 7. 6 lbs. @ 1/3 lb.; Bond 11d. lb.
" Senegae Conc., 1 to 7. 6 lbs. @ 1/9 lb.; Bond 1/6 lb.
Iodoform Pulv. B.P. 7 lbs. @ 12/- lb.; 3 lbs. @ 12/4 lb.; 1 lb. @
 12/6 lb.

Syr. Ferri Iodid. B.P. 7 lbs. @ 11d. lb.
Ferri. Phosph. Co. B.P.C. 28 lbs. @ 3½d. lb.; 7 lbs. @ 4d.
Hypophosph. Co. B.P.C. 7 lbs. @ 7½d. lb.
Rhei B.P. 7 lbs. @ 6½d. lb.
Scillae, B.P. 28 lbs. @ 3½d.; 7 lbs. @ 4d. lb.
Sennae B.P. 7 lbs. @ 7d. lb.
Tolut. B.P. 7 lbs. @ 5d. lb.
Tinct. Aurant., Recens. B.P. 5 lbs. @ 2/5 lb.; Bond 8d. lb.
" Belladon. B.P. 5 lbs. @ 2/- lb.; Bond 6½d. lb.
Benzoin. Co. B.P. 5 lbs. @ 2/6 lb.; Bond 8½d. lb.
Calumbae B.P. 5 lbs. @ 1/11 lb.; Bond 6d. lb.
Camp. Co. B.P. 5 lbs. @ 1/9 lb.; Bond 6d. lb.
Canthar. B.P. 5 lbs. @ 2/11 lb.; Bond 6d. lb.
Cardam. Co. B.P. 5 lbs. @ 1/10 lb.; Bond 6d. lb.
Chlorof. c. Morph. B.P. 85. 5 lbs. @ 1/6 lb.; Bond 1/3 lb.
Cinchonae B.P. 5 lbs. @ 2/6 lb.; Bond 10d. lb.
" Co. B.P. 5 lbs. @ 2/7 lb.; Bond 10½d. lb.
" Digitalis B.P. 5 lbs. @ 1/11 lb.; Bond 5½d. lb.
Gelsem. B.P. 5 lbs. @ 2/- lb.; Bond 6½d. lb.
Gent. Co. B.P. 5 lbs. @ 1/6 lb.; Bond 6d. lb.
Guaiaci Ammon., B.P. 5 lbs. @ 2/7 lb.; Bond 10d. lb.
Lavand. Co. B.P. 5 lbs. @ 2/4 lb.; Bond 6d. lb.
Nucis Vom. B.P. 5 lbs. @ 1/11 lb.; Bond 5½d. lb.
Opil B.P. 5 lbs. @ 2/6 lb.; Bond 1/8 lb.
Opil Aquos. 5 lbs. @ 1/11 lb.; Bond 1/8 lb.
Quinine Ammon. B.P. 5 lbs. @ 1/10 lb.; Bond 10½d. lb.
Rhei Co. B.P. 5 lbs. @ 1/9 lb.; Bond 8d. lb.
Zingib. B.P. 5 lbs. @ 2/9 lb.; Bond 6½d. lb.
" Zingib. Fort. 5 lbs. @ 3/1 lb.; Bond 10½d. lb.
Ung. Acid. Boric. B.P. 28 lbs. @ 6d. lb.
" Flav. 28 lbs. @ 4d. lb.
" Carbolic. B.P. 28 lbs. @ 6½d. lb.; 7 lbs. @ 7d. lb.
Gallae, B.P. 7 lbs. @ 10d. lb.; c. Opio B.P. 7 lbs. @ 2/- lb.
Hydrarg. Ammon. B.P. 28 lbs. @ 10d.; 7 lbs. @ 11d. lb.
Resinæ B.P. 28 lbs. @ 10d. lb.; 7 lbs. @ 10½d. lb.
Sulphuris B.P. 28 lbs. @ 7d. lb.; 7 lbs. @ 7½d. lb.
Zinci, B.P. 28 lbs. @ 7d. lb.
Vinum Ipecac. B.P. 5 lbs. @ 1/4 lb.
White Demy, 15 lbs. 10 reams, 2/9 ream; 5 reams, 3s. ream.
Zinci Oxid. B.P. 1 cwt. @ 33/- cwt.; 14 lbs. @ 4d. lb.
" Sulph. Pur. 1 cwt. @ 18/- cwt.; 28 lbs. @ 20/- cwt.

36 CAMOMILE STREET, LONDON, E.C.

TERMS: Cash with order. Packages free. Export Cases extra.

Smaller quantities at slightly increased prices. Carriage paid as follows:
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In 1/1½ and 2/9 Boxes.



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GLASS BOTTLES.

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In Pale Green, Blue, and Amber Colours. Many sizes. Plain and ground stoppered.

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Our well-known make. Attractive style. All useful sizes. In Blue and Amber Colours.

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All shapes. Many sizes and graduations. In nice light Blue Tint.

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Codds, Screw & Swing Stoppers. Cork and Crown Cork Mouths.

MACHINE AND HAND-MADE BOTTLES

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THE "EMPIRE" ATOMIZERS



FOR NASAL USE.

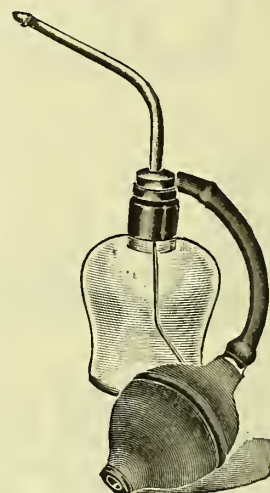
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IN ACTION.

NOTE.—These Atomizers can be used both for oil or watery solutions with equally good results. The bottles are made of annealed glass and being easily detachable from the metal tops, both parts can be sterilized in boiling water.

Price—Either shape, each in labelled box, per doz., **20/-**

A special discount of 5 per cent. for cash with order.

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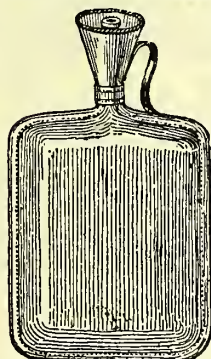
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WHITE RUBBER.

Inches.	Patent Safety Stoppers.	Ordinary Stoppers.
10x6	3/6 each	3/- each.
10x8	3/9 "	3/6 "
12x8	4/3 "	3/9 "
12x10	5/- "	4/4 "
13x9	5/- "	4/4 "
14x8	5/- "	4/4 "
14x10	5/3 "	4/9 "

LOTS OF HALF-DOZEN SUPPLIED BY WEIGHT.

Patent Stopper @ 4/6 lb.
Ordinary Stopper @ 4/3 lb.

When this quantity is taken, repeat orders will be charged at same price.

RED RUBBER

Finest quality.

Inches.	
10x8	3/9 each.
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12x10	5/- "
13x9	5/- "
14x10	5/3 "

Fully guaranteed.

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Be to call attention to their **REDUCED PRICES** FOR THE NEW YEAR. Early orders solicited.

FIRST QUALITY.

3 & 4 6 & 8 12 16 ounce. } Round edges, plain or
9/- 10/- 15/- 20/- per gross } graduated, quinine tinted.

SECOND QUALITY.

3 & 4 6 & 8 12 16 ounce. } Round edges, plain or
7/6 8/6 12/- 18/- per gross } graduated, clear blue tinted.

PANEL BOTTLES (reduced prices).

2 3 4 6 8 ounce
7/6 8/- 8/- 9/- 10/- per gross.

WHITE PHIALS—GOOD QUALITY.

3/6 1 1 1/2 2 ounce } Plain or teaspoons.
4/- 4/6 5/6 per gross }

Six gross and upwards, assorted or otherwise, sent carriage paid to any address in the United Kingdom. Smaller quantities not carriage paid.

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THE NEW

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Suitable for many purposes for which the old-fashioned shape is useless.

For **BED WARMERS.**
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For **MOTOR CARS.**
For **INVALIDS, &c.**

Customers can have their names, &c., printed on reverse side.

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FRED^K. FINK & CO.

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SPECIALITIES: Dextrine—Gum Arabic—
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First - Class Mechanical Dentistry.

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Fig. 386



Fig. 390



Fig. 990

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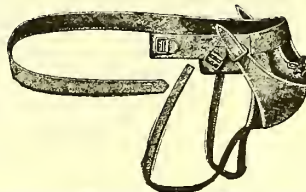
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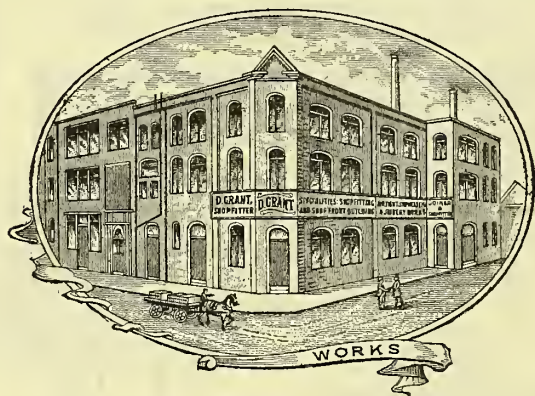
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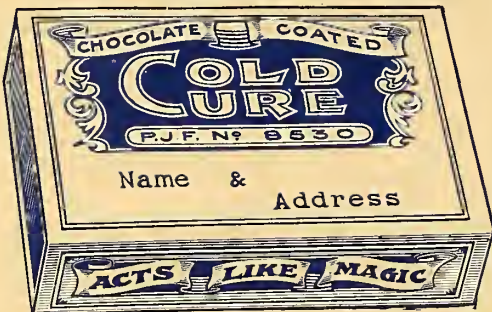
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